MOHAMMAD FAHAD SIDDIQUI

AI Engineer | DGCA Certified Drone Pilot | Full Stack Developer
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PROFESSIONAL SUMMARY

Innovative B.Tech Data Science student, DGCA Certified Remote Pilot, and Founder of the FIJS brand, offering a unique dual-competence in Artificial Intelligence, Unmanned Aerial Systems (UAS), and Social Media Marketing. Possesses a proven track record in developing scalable web applications (Next.js/React), engineering hardware solutions, and leveraging Generative AI (ChatGPT, Gemini, OpenAI) to streamline marketing workflows and create high-engagement content. Experienced in managing digital presence for family enterprises and large-scale technical conferences, combining creative design skills (Canva, Photoshop) with strong technical logic for hardware and software troubleshooting. A state-level engineering competition winner and active IEEE Student Member skilled in MS Excel and data reporting, dedicated to driving business growth and solving real-world problems through technical innovation.

EDUCATION

- **Diploma in Computer Science and Engineering**
  - *Vikas Institute of Engineering and Technology | 2021 - 2024*
- **Senior Secondary School (12th)**
  - *Reliance Academy (CBSE) | 2019 - 2020*
- **Secondary School Examination (10th)**
  - *Reliance Academy (CBSE) | 2017 - 2018*

TECHNICAL SKILLS

- **Programming Languages:** Python (Grade A+ Certified), C, C++, SQL,MongoDB, Django, PHP, JavaScript (ES6+), HTML5/CSS3.
- **AI & Machine Learning:** NLP (Natural Language Processing), Computer Vision, Gemini API Integration, Predictive Modeling, Chatbot Development.
- **Web Development:** React.js, Next.js, Node.js, Tailwind CSS, Firebase (Firestore/Auth), REST APIs, WordPress.
- **Hardware & Aviation:** DGCA Remote Pilot (Rotorcraft/Small), IoT & Embedded Systems (Arduino/Sensors), Aeromodelling.

- **Tools & Platforms:** VS Code, Git/GitHub, Android Studio, Microsoft Office, Canva, Figma, Kittle, Adobe Photoshop, Adobe Illustrator, Capcut, Davinci Resolve

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CERTIFICATIONS & LICENSES

- **Tools & ChatGPT Workshop** | be10x (March 2025) - *Focused on rapid data analysis and automated content creation.*

- **Remote Pilot Certificate (Category: Rotorcraft, Class: Small)** | *DGCA, Govt. of India*
  - **License No:** RP202500004958 | **Validity:** Until Nov 18, 2035.
  - **Scope:** Certified for Visual Line of Sight (VLOS) operations for small multirotor drones.
- **Web Development in Python (Grade "A+")** | *Education World* (ISO 9001:2015 Certified)
  - **Duration:** July 2023 – Dec 2023.
  - Mastered full-stack development logic using Python frameworks.
- **AI Chatbot Development** | *DigiCoders Technologies* (Nov 2025)
  - Gained practical experience in building conversational agents and integrating NLP.
- **AI Image Generation through API Integration** | *DigiCoders Technologies* (Nov 2025)
  - Focused on integrating Generative AI APIs for automated image creation.
- **AI Tools & ChatGPT Workshop** | *be10x* (March 2025) [3]
  - **Key Skills:** Rapid data analysis, code debugging using AI, and automated presentation creation.
- **Certificate of Participation: HackIndia 2026** | India's Biggest Web3 & AI Hackathon | Team: Falcon
- **Certificate of Presentation: National Conference on Intelligent Systems, Machine Learning & Data Science (ISMLDS-2026)** | Presented paper/abstract titled: "MedAI: An Intelligent Healthcare Assistance Platform" | Organized by IEEE STR-BIT.

PROJECTS

FIJS (Fresh Inked. Just Styled.) – Premium E-Commerce Platform

- **Role:** Founder & Lead Full-Stack Developer
- **Tech Stack:** Next.js, React, Node.js, Tailwind CSS
- **Description:** Developing a high-performance e-commerce architecture for a custom apparel brand.
- **Key Features:**
  - Built a custom **"Design Studio"** allowing users to customize apparel designs in real-time.
  - Implemented a **3D Product Viewer** for immersive customer experience.
  - Engineered a headless commerce backend for seamless inventory management.

MedAI: Intelligent Health Assistant

- **Role:** Founder & Lead Full-Stack Developer
- **Tech Stack:** React.js, Firebase, Gemini API
- **Description:** A healthcare assistance web application designed to democratize access to medical information.

- **Key Features:**
  - Integrated **Google's Gemini API** to analyze user symptoms and provide preliminary health insights.
  - Implemented secure user authentication and data storage using Firebase.

RetailMaster: Inventory & Billing System

- **Tech Stack:** Web Technologies, Excel Integration
- **Description:** Developed a comprehensive management tool for retail apparel shops.
- **Key Features:**
  - Automated **GST and Selling Price calculations** based on base costs.
  - Created dynamic inventory tracking for variable product attributes (Size, Fabric, Color).
  - Enabled automated data export to **Excel formats** for accounting purposes.

SmartAttend: AI-Based Attendance System

- **Tech Stack:** Python, Computer Vision Libraries
- **Description:** Engineered an automated attendance solution to replace manual logging.
- **Key Features:**
  - Utilized Python scripting to process visual data and mark attendance automatically.
  - Designed logical flowcharts to optimize the recognition algorithm and reduce processing time.

JARVIS: Advanced AI Voice Assistant

- **Tech Stack:** Python, NLP, Speech Recognition APIs
- **Description:** A personal desktop assistant capable of performing system tasks via voice commands.
- **Key Features:**
  - Integrated speech-to-text engines for real-time command execution.
  - Automated smart home device controls and system navigation.

CivicConnect: Issue Reporting Platform

- **Concept:** A crowdsourced platform for reporting civic issues (potholes, waste, etc.).
- **Contribution:** Designed the system architecture and problem statement for efficient government-citizen communication.

SKF Solution: Educational Resource Hub

- **Impact:** Deployed a platform hosting 300+ solved papers, achieving a **50% increase in user retention** through optimized search algorithms.

Survival Quest: 3D Survival Adventure Game

- **Tech Stack:** Unity, C#, 3D Game Development
- **GitHub:** https://github.com/mohammadfahadsiddiqui/Survival_Quest_3D
- **Description:** Developed an immersive survival-based 3D game focused on exploration, environment interaction, and player survival mechanics.
- **Key Features:**
  - Developed interactive player movement and survival mechanics using Unity and C#.

- Implemented environmental systems and gameplay interactions to create an engaging survival experience.
- Worked on game environments, object interactions, and core gameplay functionality.

Conveyor Chef: Food Rush

- **Tech Stack:** Unity, C#, Game Development
- **GitHub:** https://github.com/mohammadfahadsiddiqui/Conveyor_Chef
- **Description:** Developed a fast-paced food sorting and serving game where players must quickly select and serve the correct food items.
- **Key Features:**
  - Designed fast-paced tap-to-sort gameplay mechanics.
  - Implemented food selection, order matching, and scoring systems.
  - Focused on creating an engaging and addictive casual gaming experience.

Endless Runner

- **Tech Stack:** Unity, C#, Game Development
- **GitHub:** https://github.com/mohammadfahadsiddiqui/Endless_Runner
- **Description:** Developed an endless runner game featuring continuous player movement, obstacle avoidance, and progressive gameplay challenges.
- **Key Features:**
  - Implemented continuous player movement and running mechanics.
  - Designed obstacle generation and collision systems.
  - Developed scoring and progressive difficulty mechanics to improve gameplay engagement.

Flappy Bird

- **Tech Stack:** Unity, C#, Game Development
- **GitHub:** https://github.com/mohammadfahadsiddiqui/Flappy_Bird
- **Description:** Developed a Flappy Bird-inspired arcade game focused on physics-based movement and obstacle navigation.
- **Key Features:**
  - Implemented physics-based player movement.
  - Developed obstacle generation and collision detection systems.
  - Created score tracking and game-over mechanics.

Backend Using Express

- **Tech Stack:** Node.js, Express.js, MongoDB, Mongoose, JWT, bcryptjs, REST APIs
- **GitHub:** https://github.com/mohammadfahadsiddiqui/Backend_Using_Express
- **Description:** Developed a structured backend service using Express.js with database connectivity and authentication-oriented API architecture.
- **Key Features:**
  - Built REST API endpoints and modular routing using Express.js.

- Integrated MongoDB through Mongoose and configured environment-based database connectivity.
- Implemented authentication foundations using JSON Web Tokens, bcryptjs, CORS, and environment variables.

BatteryX AI: Intelligent EV Battery Health Assessment & Second-Life Certification Platform

- **Tech Stack:** React, TypeScript, Vite, Tailwind CSS, FastAPI, Python, SQLAlchemy, Pydantic, Scikit-Learn, ReportLab
- **GitHub:** https://github.com/mohammadfahadsiddiqui/BatteryX_AI
- **Description:** Developed an AI-powered platform for assessing EV battery health, degradation, safety risk, remaining useful life, and second-life suitability.
- **Key Features:**
  - Implemented multi-factor State of Health estimation using capacity fade, internal resistance rise, cycle degradation, and calendar-aging models.
  - Built chemistry-specific degradation and Remaining Useful Life projections for LFP, NMC, and NCA batteries.
  - Developed safety-risk scoring, automated second-life classification, and QR-verifiable downloadable battery health certificates.

GrainShield AI: Intelligent Grain Storage Monitoring & Spoilage Prediction

- **Tech Stack:** Python, FastAPI, React, Vite, WebSockets, NumPy, Scikit-Learn, REST APIs
- **GitHub:** https://github.com/mohammadfahadsiddiqui/GrainShield_AI
- **Description:** Developed a full-stack grain-storage monitoring platform that evaluates sensor telemetry and estimates spoilage risk for warehouse storage units.
- **Key Features:**
  - Built a grain-specific risk engine combining temperature, humidity, moisture, gas, CO2, storage duration, and weighted threshold profiles.
  - Implemented trend analysis and statistical anomaly detection to identify rising environmental risk and abnormal sensor behavior.
  - Developed FastAPI services with JWT-based authentication, real-time WebSocket feeds, storage-unit analytics, and a React/Vite monitoring dashboard.

AMR-Predict: AI-Powered Antimicrobial Resistance Prediction & Explainability

- **Tech Stack:** Python, FastAPI, Scikit-Learn, XGBoost, Random Forest, SHAP, HTML5/CSS3/JavaScript
- **GitHub:** https://github.com/mohammadfahadsiddiqui/AMR
- **Description:** Developed a research prototype that estimates patient-specific antimicrobial resistance probabilities for eight antibiotics from clinical and laboratory features.
- **Key Features:**
  - Trained and compared Random Forest and XGBoost classifiers using stratified evaluation and class-imbalance-aware model selection.
  - Applied probability calibration to improve the reliability of predicted resistance risk

estimates.

- Integrated local and global SHAP explainability into an interactive FastAPI dashboard; the prototype is based on synthetic data and is not clinically validated.

SEMINARS & WORKSHOPS

- **"Recent Trends in the IT Industry & How to Prepare for It?"** [9]
  - **Organizer:** Eisystems Technologies at BIT Gorakhpur (Sept 2025).
  - Gained insights into emerging industry demands and career preparation strategies.

- **"Challenges & Opportunities of Engineering Students"** [10]
  - **Organizer:** Institution of Engineers (India) & VIET (Dec 2022).
  - Explored the evolving landscape of engineering education and career paths.

PROFESSIONAL MEMBERSHIPS

- **IEEE Student Member** | *IEEE Uttar Pradesh Section*
  - **Membership ID:** #101024953 | **Valid Through:** Dec 2025.
  - Part of a global community of innovators, committed to the advancement of technology.

- **Institution of Engineers (India) - Participant**
  - Engaging with the engineering community through seminars and local center activities in Gorakhpur.

PROFESSIONAL EXPERIENCE & INTERNSHIPS

Say Drone Technology Pvt. Ltd. | Assistant Drone Trainer | Present

- Spearheaded comprehensive UAS training programs, successfully instructing and mentoring **600+ NCC Cadets** in flight operations, safety protocols, and practical drone piloting.
- **Conducted hands-on technical sessions** covering drone assembly, aerodynamics, and hardware troubleshooting to ensure cadets gained practical, real-world engineering knowledge

Astrion Ventures | Intern | January 2026 – July 2026

- Actively engaged in industry-level projects and continuous professional development during the internship period.

GauravGo Gaming | Game Developer Intern | April 2026 – Present

- Contributing to game development projects and technical development initiatives within the gaming industry.

- Working on game mechanics, development workflows, and interactive gaming experiences.

BHAIRAVA ENTERPRISE (BEN3) | Project Head | June 2026 – Present

- Associated with Skill India Digital Hub as Project Head, responsible for leading and coordinating project-related activities.

- Managing project workflows, team coordination, and the execution of assigned projects and initiatives.

Atribotix | Graphic Designer Intern | August 2026 – Present

- Contributing to graphic design and creative visual content development for digital platforms and projects.

- Creating visual assets and design materials while applying creative design principles and digital design tools.

FIJS (Fresh Inked. Just Styled.) | Founder & CEO | April 2025 – Present

- **Social Media Management:** Spearheaded the social media strategy for the family business, managing Instagram and Facebook handles to boost brand visibility.
- **AI & Automation:** Utilized **ChatGPT and AI tools** to generate creative ad copy, product descriptions, and automated customer responses, significantly reducing manual workload.
- **Content Creation:** Designed high-quality visual assets and promotional reels using **Adobe Photoshop and CapCut**, establishing a premium brand aesthetic.
- **Data Analysis:** Managed inventory and sales data using **MS Excel**, creating automated reports to track best-selling items and marketing ROI.
- **Technical Support:** Handled all computer hardware and software troubleshooting for the business operations, ensuring 100% uptime for the e-commerce platform.

Predator AeroBotics | Founder | April 2026 – Present

- Founded Predator AeroBotics, an aerospace and drone-focused initiative centered around aeromodelling, UAS, flight systems, and engineering innovation.

- Focused on developing practical knowledge and projects in drone technology, aerodynamic design, flight stability, and aerospace engineering.

IEEE Uttar Pradesh Section (ICICAT 2025) *Social Media Coordinator & Volunteer*

- **Conference Marketing:** Managed the official social media presence for the **International Conference on Innovative Computing and Communication (ICICAT 2025)**.
- **Engagement Strategy:** Created and scheduled daily posts, stories, and reels covering event highlights, leading to increased delegate registration and online engagement.
- **Asset Design:** Collaborated with the design team to produce event brochures and digital banners using **Canva and Figma**.
- **Live Coverage:** executed real-time social media coverage during the event, interviewing keynote speakers and showcasing student projects.

Interns Elite | AI & Machine Learning Intern
13 August 2025 – October 2025

- Completed intensive industrial training in **AI & ML with Python**.
- Built predictive models and data analysis pipelines, receiving recognition for "transformative impact" on projects.

Robotics Era Pvt. Ltd. | IoT & Embedded Technology Trainee
14 November 2025

- Gained practical expertise in connecting software logic with physical hardware sensors and actuators.

Say Drone Technology Pvt. Ltd. | Remote Pilot Trainee
15 November 2025

- Certified competency in Visual Line of Sight (VLOS) operations for small rotorcraft.

LEADERSHIP & VOLUNTEERING

IEEE UP Section - Volunteer / Organizer
2025 - Present

- Role: Active volunteer involved in the organization of technical conferences.
- Achievement: Played a key role in organizing ICICAT 2025, coordinating logistics and
  ensuring smooth execution of the event.

ACHIEVEMENTS & AWARDS

- **Winner (1st Position) :** YANTRA 2K26 at **IIIT RANCHI**.
  - **Event : WING FURY**
  - **Team Name :** "The Flying Predators". demonstrated excellence in aerodynamic design and flight stability.

- **Winner (2nd Position) :** OJASS 2026 at **NIT JAMSHEPUR**
  - **Event : NO GROUND ZONE**
  - **Team Name :** The Flying Predators

- **Winner (3rd Position)**
  - **Event:** TECHNEX 2026 at **INDIAN INSTITUTE OF TECHNOLOGY BHU (IIT BHU)**
  - **SKYGLIDE**
  - **Team Name :** The Flying Predators, demonstrated excellence in aerodynamic design

- **Winner (3rd Position) :** Techsrijan '26 at **Madan Mohan Malaviya University of Technology (MMMUT)**.
  - **Event : MALVIYA AEROMODELLING COMPETITION (MAC)**
  - **Team Name :** "The Flying Predators". demonstrated excellence in aerodynamic design and flight stability.

- **Winner (3rd Position)** at **Poornima Institute of Technology**
  - **Event:** FLIGHT QUEST 2.0 2026
  - **Team:** "The Flying Predators". demonstrated excellence in aerodynamic design and flight stability.

- **District Level Qualifier - Skill India Competition**
  - Selected for the next round in the **Cloud Computing** category (Dec 2025), showcasing proficiency in cloud infrastructure.

- **Winner (1st Position) - Pythonia**
  - Pythonia 2025 (Python Debugging Competition) at Buddha Institute of Technology, Gorakhpur

- **District-Level Shooter - Gorakhpur Mahotsav**
  - Participated in the **10 Meter Air Rifle (Open Sight)** competition organized by the **U.P. State Rifle Association** (Jan 2024).

- **Common Internship Test (CIT) Participant**
  - **Organization:** Internship Studio (March 2025).
  - Recognized for dedication and effort in national-level employability assessments.

- **Sparkathon Finalist** [8]
  - **Event:** Organized by **Buddha Innovation Council** (Sept 2025).
  - Demonstrated creativity and team spirit in solving startup-level problem statements.

LANGUAGES

- English, Hindi, Urdu.