

Taha S Awan

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PROFESSIONAL SUMMARY

FAST NUCES graduate and gold medalist — AI/ML Engineer and Full-Stack Developer with hands-on experience building AI-powered applications, machine learning systems, RAG workflows, and scalable backend architectures. Skilled in Python, supervised learning, OpenAI and Gemini integrations, computer vision, and data-driven product development.

EDUCATION

FAST NUCES Islamabad

BS Computer Science (Robotics Specialization) — Graduate · Gold Medal for Academic Excellence

TECHNICAL SKILLS

Programming: Python, SQL, JavaScript, TypeScript

LLMs & APIs: OpenAI APIs, Google Gemini, Generative AI, Multi-Agent Orchestration

Web & Backend: Next.js, React, React Native, Expo, Node.js, REST APIs

AI & ML: Scikit-learn, Supervised Learning, Ensemble Methods, SMOTE, YOLOv8, RAG, Prompt Engineering

Data & Viz: Pandas, NumPy, Matplotlib, Seaborn, Tableau, EDA

Databases & Tools: PostgreSQL, Prisma, NeonDB, Git, Jupyter, Vercel, JWT, OAuth

PROJECTS

PrepXpert — AI-Powered Test Preparation Platform

- Built Pakistan's AI test prep platform (MDCAT & entry tests) with Next.js, PostgreSQL, and OpenAI-assisted practice.
- Designed secure auth, REST APIs, weakness tracking, and gamified XP-based learning experiences.

LegalConnect — AI-Powered Legal Consultation Platform

- Full-stack legal consultation app with OpenAI intake, role-based dashboards, and HD video consultation foundations.
- Built scalable REST APIs, PostgreSQL schemas, OAuth authentication, and encrypted communication workflows.

JobGPT — AI Job Search & Application Copilot

- Chat-first job search across major boards with resume-aware match scoring and apply/skip recommendations.
- Integrated RAG and OpenAI for ATS-ready resume tailoring and synced application pipeline dashboards.

InsightFlow AI — Autonomous Report-to-Action Agent

- Mobile-first executive copilot using multi-agent Gemini pipeline to turn reports into prioritized decisions.
- Shipped Expo/React Native app with leadership alerts, scorecards, and simulated execution workflows.

Employee Turnover Analytics — HR Retention ML

- End-to-end ML pipeline predicting attrition with SMOTE, clustering, and ensemble model comparison.
- Gradient Boosting selected for 91.7% recall and 0.979 AUC; mapped outputs to HR risk zones.

Precision Farming Robot (Final Year Project)

- Autonomous weed detection robot using YOLOv8n; dataset curation, model training, and field deployment.

CERTIFICATIONS

- AI Engineer — Masters Program (Simplilearn)
- Machine Learning using Python (Simplilearn)
- Applied Data Science with Python (Simplilearn)
- Generative AI, Prompt Engineering & ChatGPT (Simplilearn)
- Advanced Statistics for Data Science (Simplilearn)
- Python 101 for Data Science (IBM · Simplilearn)
- Programming Essentials (Simplilearn)

ACHIEVEMENTS

- Gold Medalist — BS Computer Science, FAST NUCES Islamabad
- Gold Medalist — IGCSE North Region (9A*) · Silver Medalist — A Levels
- Founder of an AI-focused startup currently in development phase