

# Taha S Awan

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## PROFESSIONAL SUMMARY

Aspiring AI/ML Engineer and Full-Stack Developer with hands-on experience building AI-powered applications, machine learning systems, and scalable backend architectures. Skilled in Python, machine learning workflows, OpenAI API integrations, computer vision, and data-driven application development. Passionate about deploying real-world AI solutions and intelligent systems that combine automation, analytics, and user-focused experiences.

## EDUCATION

### FAST NUCES Islamabad

BS Computer Science (Specialization in Robotics)

## TECHNICAL SKILLS

**Programming:** Python, SQL, JavaScript, TypeScript

**AI & Machine Learning:** Scikit-learn, Machine Learning Fundamentals, Supervised Learning, Model Evaluation, Feature Engineering, YOLOv8, OpenAI APIs, Generative AI Fundamentals

**Data & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, EDA, Data Analysis

**Web & Backend:** Next.js, React, Node.js, Express.js, REST APIs

**Databases:** PostgreSQL, Prisma ORM, NeonDB

**Tools & Platforms:** Git, GitHub, Jupyter Notebook, Vercel, JWT Authentication

## PROJECTS

### PrepXpert – AI-Powered Test Preparation Platform

- Built Pakistan's AI-powered test preparation platform for MDCAT and university entry tests using Next.js and PostgreSQL.
- Developed personalized AI-driven practice systems with weakness tracking and progress analysis.
- Designed scalable backend systems, secure authentication workflows, and protected REST APIs.
- Implemented gamification systems including XP-based progression and intelligent learning experiences.

### LegalConnect – AI-Powered Legal Consultation Platform

- Developed a full-stack AI-powered legal consultation platform with secure HD video consultation support.
- Integrated OpenAI APIs for AI-driven legal assistance and automated case preparation workflows.
- Built scalable REST APIs, PostgreSQL database schemas, and role-based dashboards.
- Implemented enterprise-level security practices including OAuth authentication and encrypted communications.

### Precision Farming Robot (Final Year Project)

- Developed an autonomous precision farming robot for real-time weed detection and elimination using YOLOv8n.
- Collected, processed, and annotated agricultural datasets for computer vision model training.
- Trained and evaluated multiple YOLO models, comparing performance metrics to optimize detection accuracy.
- Selected and deployed the best-performing model for real-world field implementation.

### Australian Apparel Sales Analysis

- Performed exploratory data analysis and visualization on apparel sales datasets using Python and Pandas.
- Generated business insights through trend analysis and visual reporting dashboards.
- Worked with structured datasets and data preprocessing workflows for analytics applications.

## **CERTIFICATIONS**

- IBM Artificial Intelligence Engineer Professional Certificate
- Advanced Statistics for Data Science
- Essentials of Generative AI
- Python for Data Science
- Data Science with Python
- Machine Learning with Python (In Progress)

## **ACHIEVEMENTS**

- Founder of an AI-focused startup currently in development phase
- Gold Medalist – 1st Semester BS Computer Science
- Gold Medalist – IGCSE North Region (9A\*)
- Silver Medalist – A Levels