Abdul Rahman Azam

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AI/ML Engineer

SUMMARY

AI Engineer with strong foundations in machine learning, deep learning, and algorithms. Experienced in developing AI-driven projects using Python, PyTorch, and advanced search techniques. Skilled at applying AI to solve real-world problems through efficient models and intelligent systems.

SKILLS

- **Web Development:** React | Next.js | Tailwind CSS | ShadCN UI | Zustand | Axios | Mongodb
- **Machine Learning & AI:** Data preprocessing | Exploratory Data Analysis | Deep learning | Feature Engineering
- **Programming & Data:** Pandas | NumPy | Scikit-Learn | Matplotlib | Model Selection and Training
- **Languages & Tools:** C\C++ | Python | JavaScript | Docker | GitHub | Postman | RESI APIs

EXPERIENCE

- **Lead of AI Competitions – PROCOM, FAST NUCES Karachi**   **Aug 2025 - Present**
  - Leading and managing **5 Modules of AI competitions** at FAST Karachi's annual tech event.
  - Overseeing event design, execution, and coordination of participating teams.

- **Head of Machine Learning – ACM-AI, FAST NUCES Karachi**   **Aug 2025 - Present**
  - Leading the Machine Learning division, guiding members through hands-on projects and workshops.
  - Supervising the development of ML models and fostering learning within the society.

- **Students Lab Assistant – (FAST NUCES)**   **Jan 2025 - Present**
  - Guided and **mentored 50+ students** in **OOP Lab**, and **45+ Students** in **PF Lab** simplifying complex concepts and improving understanding.
  - Coordinated with the instructor to deliver engaging lab sessions, resulting in **98% student satisfaction.**

- **Founder & Mentor – (ML Toppers Community)**   **June - Aug 2025**
  - Built and manage a learning community of **700+ students** focused on Machine Learning.
  - Mentor students through lessons, exercises, and discussions to build practical ML skills.

EDUCATION

FAST NUCES Khi - **(CGPA: 3.33)** *BS in Artificial Intelligence*	2023 – Present
Adamjee Govt. College - **(80%)** *Intermediate in Pre-Engineering*	2021 – 2023
Happy Palace School - **(98.12%)** *Matric in Computer Science*	2019 – 2021

PROJECTS

- **FAST WHEELS – WhatsApp-Based Carpool Bot:**   *July - Oct 2025*
  - Built an **AI-powered** carpool platform connecting **500+ FAST students** via WhatsApp.
  - Implemented **intelligent ride-matching**, user verification, and route optimization features.

- **DEBZI AI – AI-Powered Debating Assistant:**   *Sep – Oct 2023*
  - An **intelligent debating assistant** that analyzes topics, generates counterarguments, and provides real-time suggestions using **NLP and LLMs**.
  - Trained on structured debate datasets to enhance logical reasoning and argument coherence.

- **University Resource Sharing Platform:**   *Jan - May 2025*
  - Developed a centralized platform using **React.js, Node.js, Express.js, Tailwind CSS, REST APIs** for FAST-NUCES students to share resources, join communities, and interact via posts, comments, and file sharing.
  - Secure **email-based authentication**, admin moderation, and a scalable **PostgreSQL database** using **Sequelize ORM.**

- **Super Tic Tac Toe (AI-based Web Game)**   *Apr - May 2025*
  - Implemented a web-based Super Tic-Tac-Toe game featuring a **9x9 multi-board system** and custom scoring model.
  - Developed an intelligent **AI opponent using Minimax with Alpha-Beta Pruning**, enabling optimal decision-making**.**

- **Income Predictor - Data Analysis:**   *Sep - Dec 2024*
  - Built a full-stack ML income prediction app using **KNN (85% accuracy)** with **React, TypeScript, FastAPI,** and **Python** on the Adult Census dataset **(32,000+ entries)**
  - Automated a complete data analysis and visualization pipeline, generating **50+ visualizations** and enabling real-time model insights across **10 KNN** variations using **Pandas, NumPy, Matplotlib,** and **Scikit-learn**.

ACHIEVEMENTS & CERTIFICATION

- Solved **290+ problems on LeetCode** and earned **6 skill badges**, strengthening algorithms and data structures.
- Secured **2nd Place** in Web Hunt Competition and **3rd Place** in ACM Coders Cup.
- Achieved **Problem Solving – Basic & Intermediate** certifications on HackerRank.