Amaan Ahmed Shaikh

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Education

7/2023 – Present

B.E. Computer Engineering

Dr. D. Y. Patil Institute of Technology, Pune
- CGPA - 9.05

05/2021 - 04/2023

Higher Secondary Certificate

Shoeb Junior High School & College

Professional Experience

10/2024 – 12/2024

RnD Intern at Pixaflip Technologies Inc
- Development of a new circuit design for a Smartwatch.
- Collaborated with an Agile development team to implement project features.
- Designed Architecture circuit for SOS signalling, GSM system, Live time, and alert system for hidden camera detection.
- Made sure it supports the latest 4G/LTE sim and optimized core code for small storage.

Research & Projects

07/2025 – Present

AI-Powered Solution for Smart and Climate-Resilient Agriculture
- Developed an IoT-based, AI-enabled platform that offers farmers actionable and real-time insights to solve problems such as unfortunate weather and insufficient data.

- Satellite-based monitoring of crop health, stress levels and soil conditions using Google Earth Engine (GEE).

- Integrated a solar-powered hardware system for checking soil health. Developed custom ML models to identify 20+ different crop diseases and recommendations.

- Designed a web platform with MERN Stack to process farmer requests to government schemes and financial services.

12/2024 – 01/2025	**Machine Learning in Healthcare	Brain Haemorrhage Detection**

- Developed a deep learning-based system using a hybrid CNN-RNN architecture (Conv2D, LSTM, GRU layers) to detect Brain Haemorrhage from CT scans, achieving 90% accuracy. Explored many research papers to get suitable and good-quality data.

- Collaborated with Dr. D. Y. Patil Hospital, Pimpri, to test the model on real-world medical data. Fine-tuned the model to bring the accuracy up to 95%. This project is patented.

08/2024 – Present	**Railway Turbine Power Generation**

- Our team is making a flagship project to place a turbine between railway tracks to extract energy from moving trains.
- Pursuing Patent approval for this project since the generated electricity method demonstrates sustainable potential to extract power from kinetic energy.

Awards & Achievements

1st Runner-up position at Innovera National Hackathon, Nashik (2025)

- Secured 1st Runner-Up position in the Terra category for our wind energy project, competing against finalist teams from Chennai, MP, Noida, Gujarat, and other parts of India.

- Completed 3 intense evaluation rounds over 12+ hours, incorporating real-time modifications suggested by judges.

Skills

- **Data Structures & Algorithms:** Arrays, Linked Lists, Stacks, Queues, Trees, Graphs, Heaps, Hash Tables, Dynamic Programming, Recursion, etc.
- **Web Development**: Frontend: HTML, CSS, JavaScript. Backend: MERN Stack, MVC model, Rest APIs, etc.
- **Machine learning:** Supervised Learning, Regression Models, Decision Trees, SVM, Model Evaluation, Unsupervised Learning, Deep Learning, Neural Networks, TensorFlow 2.0, Keras, Pandas, NumPy, matplotlib.
- **Development Tools:** Git/GitHub, Basic understanding of CI/CD.
- **Software:** MS Office (Word, Excel, PowerPoint), basic Canva and video editing.
- **IoT**: Arduino, Raspberry Pi, GSM and GPS modules, etc.
- **Programming Languages:** Python (proficient), C++ (proficient), Java (Intermediate).
- **Languages:** English (Fluent), Hindi (Fluent), Urdu (Fluent), Marathi (Fluent).

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