

Amaan Shaikh

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Aspiring Full Stack AI Engineer with 2 years of experience in full stack development, passionate about building intelligent, data-driven applications that enhance user experiences.

EDUCATION

Berliner Hochschule für Technik (BHT)

Master of Science in Data Science

Berlin, Germany

Oct. 2025 – Present

- **Current Coursework:** Statistical Computing, Computer Science for Big Data, Mathematical Models, Data Science, Advanced Software Engineering

University of Mumbai

Bachelor of Engineering in Computer Engineering; CGPA: 9.60

Mumbai, India

Aug. 2019 – May 2023

- **Relevant Coursework:** Object Oriented Programming, Data Structures, DBMS, Machine Learning, NLP, Applied Data Science

WORK EXPERIENCE

Zeus Learning

Software Engineer

Mumbai, India

July 2023 – Sept 2025

- Designed and implemented **array support** in the **Graphing Calculator** by writing custom grammar with **Jison** for parsing and validation, tokenizing input strings, and integrating arrays as table headers and variables for advanced plotting.
- Collaborated on the development of a **real-time collaborative tool**, enabling users to share multimedia content for enhanced classroom interaction and planning.
- Implemented a flexible **settings feature** within the collaborative tool, allowing instructors to control permissions such as post approvals, posting rights, and anonymizing student identities.
- Enhanced **geometry tools** in the Annotate.net web extension with smoother drawing, dragging, resizing, rotating, and exporting features, improving overall usability.
- Optimized **loading performance by 40%** for users handling large numbers of courses and files, significantly improving responsiveness.
- Integrated the **publishing feature** into the web extension, adapting existing functionalities for seamless cross-platform content sharing.
- Developed and delivered a **modern UI design** for the web application, ensuring an intuitive and user-friendly interface.
- Built the **course cloning feature**, ensuring correct ownership handling and smooth duplication of course materials.
- Developed end-to-end **automation test scripts** using **Playwright**, increasing test coverage and reducing manual QA time across key workflows.

Automata

Full Stack Developer Intern

Mumbai, India

Aug. 2022 – May 2023

- Designed and optimized a **responsive UI** for a **subscription-based e-commerce platform**, improving usability on both **desktop and mobile devices**.
- Developed and integrated **APIs** to manage all user interactions, including **subscription processes**, **product browsing**, and **checkout functionalities**, ensuring smooth data flow across the platform.

PROJECTS

Prescribe.ME - Voice Prescription using NLU

July 2020 – May 2022

Technologies: Python, Django, SQL, TensorFlow, NLP

- Built an application to convert doctors' **voice inputs** into structured PDF prescriptions using **Natural Language Understanding (NLU)**.
- Achieved high accuracy with a **Slot F1 score of 0.96** and **Intent Accuracy of 0.99** through a custom Stack Propagation Model.
- Improved semantic accuracy by implementing a **Joint BERT model**, achieving **0.91** for extracting details like **medication**, **dosage**, and **treatment duration**.

Asteroid Hazard Classification Using XGBoost

July 2022 – Dec. 2022

Technologies: Python, Machine Learning

- Developed a **classification model** to predict asteroid hazards with **99% accuracy** using NASA's dataset.
- Enhanced predictive accuracy through **feature engineering** and **RandomizedSearchCV** optimization.

TECHNICAL SKILLS

Languages: Python, C/C++, Java, JavaScript, C#, PHP, TypeScript

Frameworks: React, Node.js, Django, Flask, Express, Next.js, Tailwind, Bootstrap, LangChain, PyTorch, TensorFlow, Numpy, Pandas, Matplotlib

Databases & Tools: MySQL, MongoDB, Firebase, AWS, Redis, Git, Jenkins, VS Code, Redmine