Akash Shah

+91 9309554378 | akashshah20031@gmail.com | linkedin.com/in/akash-shah3 | github.com/akashshah3
Nagpur, Maharashtra

Education

Symbiosis Institute of Technology — Nagpur , Maharashtra
Bachelor in Technology Computer Science and Engineering — *Aug. 2022 – May 2026*

Dinanath High School and Junior College — Nagpur , Maharashtra
Higher Secondary School — *2020 – 2022*

Technical Skills

Programming Languages: Java, C, C++, Python, JavaScript
Web Development: HTML, CSS, ReactJS, Streamlit
Database Management: SQL, Mongodb
Operating Systems: Unix/Linux (Ubuntu, Fedora), Windows
Libraries: Keras, Scipy, Seaborn, BeautifulSoup, NLTK, Scikit-learn, TensorFlow, Matplotlib, Pandas, NumPy
Softwares: IBM SPSS, Microsoft Finance Excel, PowerBI
Core CS: Data Structures & Algorithms, Operating Systems, Computer Networks, Database Management Systems
Other: Natural Language Processing, Machine Learning, Data Science, Research

Experience

Full Stack Intern — July 2024 – Nov 2024
Estree Foundation — *Nagpur , Maharashtra*

- Designed and developed a full-stack E-commerce platform for selling eco-friendly jute bags.
- Implemented product catalog, shopping cart, and order management features.
- Built the front-end using React.js, HTML, CSS, and JavaScript, ensuring responsive and user-friendly UI.
- Developed and integrated RESTful APIs with Node.js and Express, connected to a MongoDB database for product and order storage.
- Collaborated with the team to deploy the platform and ensure smooth functionality.

Projects

MindMentor (AI Study Buddy) | *Python, NLP, Transformers, Streamlit* — July 2025 - Present

- Designed an AI-powered **personal study assistant** to help students prepare for competitive exams.
- Implemented NLP features to analyze students' notes, identify learning gaps, and provide targeted feedback.
- Integrated quiz generation, progress tracking, and adaptive learning pathways for personalized preparation.
- Built a prototype UI with Streamlit for interactive use and future scalability.

GutHeart | *Python, Scikit-learn, SHAP, Streamlit* — January 2025 - May 2025

- Developed an AI-powered application that predicts **cardiovascular disease (CVD) risk** from gut microbiome data.
- Implemented machine learning models (Random Forest, Gradient Boosting) with hyperparameter tuning.
- Integrated **SHAP-based explainability** to provide interpretable predictions for users.
- Built an interactive frontend using Streamlit and deployed at gutheart.streamlit.app.

Credit Card Optimization Tool | *Python, Flask, Pandas, Streamlit* — January 2025 - Present

- Built a tool that recommends the best **credit cards and apps** to maximize cashback and reward points.
- Users enter their monthly expenses, and the system suggests optimal cards to increase return rates.
- Implemented expense categorization and ranking logic using **Pandas and rule-based optimization**.
- Developed a simple UI in Streamlit for interactive input and personalized recommendations.

Certifications

ServiceNow: Certified System Administrator (CSA)
ServiceNow: Certified Application Developer (CAD)
Red Hat: RH124 - Red Hat System Administration I 9.0
Oracle Academy: Java Fundamentals (JF)
Oracle Academy: Database Foundations
Infosys Springboard: Java Programming Fundamentals
Infosys Springboard: Big Data - Level 201
The Open University: An Introduction to Software Development
All Certificates: Click here to access certificate folder

Research Projects

Gut Microbiome-based Cardiovascular Prediction using Random Forest Model
Conference paper presented at 2024 Control Instrumentation System Conference (CISCON). Authors include Akash Shah, Akshat Duggal, Arya Gaurkar, Monali Gulhane, DOI: 10.1109/CISCON62171.2024.10696178.

Evaluating Generative Models: A Review of Challenges and Opportunities in Assessment of Generative Adversarial Networks
Proceedings article published at an IEEE event on February 6, 2025. Authors include Akash Shah, Nitin Rakesh, Monali Gulhane, Pratik Agrawal, Mandeep Kaur, and Saurav Dixit. DOI: 10.1109/cictn64563.2025.10932502.