

KHUSH MEHTA

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EDUCATION

Stevens Institute of Technology | Hoboken, NJ, United States

Master of Science, Computer Science: GPA 4.0/4.0

Expected May 2027

Relevant Coursework: Generative AI, Machine Learning, Deep Learning, Big Data, Data Mining

Indus University | Ahmedabad, India

Bachelor of Technology, Information Technology: GPA 3.8/4.0

Jul 2021 – May 2025

Relevant Coursework: Data Structures, Artificial Intelligence, Big Data, Web Development

SKILLS

Languages: Python, C++, Java, C, JavaScript, SQL, R, MySQL, Node.js, React.

Frameworks: Flask, Django, FastAPI, Streamlit, Bootstrap.

Developer Tools: Git, GitHub, Docker, AWS, Google Cloud Platform (GCP), Jupyter, Kafka.

Libraries: TensorFlow, PyTorch, Keras, Scikit-learn, NumPy, Pandas, OpenCV, NLTK, SpaCy, Matplotlib, Seaborn, Power BI, Tableau.

WORK EXPERIENCE

Code Schema Inc. | Ahmedabad, India

Chatbot Developer

May 2025 – Jul 2025

- Engineered an AI chatbot that streamlined doubt resolution, handling 200+ queries daily and reducing manual support workload by 35%.
- Integrated TextBlob for sentiment-aware replies, boosting user satisfaction by 34%.
- Led deployment of an AI-driven training portal through cross-functional collaboration with UX and content teams.

ExtendedITArms Solutions Pvt Ltd | Ahmedabad, India

AI/ML Intern

Dec 2023 – Apr 2024

- Enhanced predictive accuracy by 15% using advanced feature engineering and hyperparameter optimization.
- Optimized ML pipelines, achieving a 20% improvement in inference speed for client applications.
- Streamlined data preprocessing and feature engineering, cutting model training time by 25% while preserving performance.

Prodigy Info Tech | Mumbai, India

Machine Learning Internship

May 2023 – Jun 2023

- Implemented and fine-tuned ML models (Regression, Random Forest, CNN, NLP), achieving up to 95% accuracy on datasets exceeding 10K samples.
- Applied preprocessing and feature engineering, reducing model training time by 25% without performance loss.
- Developed automated model evaluation pipelines using Python (scikit-learn, TensorFlow), enabling faster comparison of multiple algorithms and improving selection efficiency by 30%.

ACADEMIC PROJECTS

QODBC Chatbot

May 2025 – Jul 2025

- Developed a support chatbot using OpenAI LLMs, slashing average query resolution time by 40% and increasing customer satisfaction by 30%.
- Integrated Pinecone vector search with rich contextual embeddings, leading to a 25% boost in overall response accuracy and improving the reliability of automated customer interactions.
- Built personalized session management with sign-up and cookie-based history, enhancing user retention by 20%.

Fraudulent Transaction Classification

Aug 2025 – Sep 2025

- Designed and deployed a fraud detection system using Logistic Regression and Scikit-learn, achieving a 92% recall on fraudulent cases despite a 1:500 class imbalance.
- Improved fraud detection recalls by 25%, reducing false negatives and enhancing overall security.
- Utilized advanced preprocessing techniques like OneHotEncoding and ColumnTransformer to enable efficient and accurate handling of heterogeneous categorical and numerical data.

Railway Track Fault Detection Using Deep Learning

Jan 2025 – Feb 2025

- Engineered a fault detection model with CNN and Xception, reaching 98% accuracy on a benchmark dataset via transfer learning.
- Mechanized fault identification processes with deep learning, reducing manual inspection efforts by 40% and substantially improving operational efficiency in fault monitoring.
- Improved railway safety monitoring by delivering a scalable deep learning solution for real-time fault detection.