Meher Naaz

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Summary

Computer Science undergraduate with strong foundations in programming, machine learning, NLP, and systems. Experience building real-world ML applications and web platforms, with a published Indian patent in AI-driven decision systems. Actively interested in reliable and robust machine learning systems and real-world AI deployment.

Research Interests

Reliability and robustness of machine learning systems

Failure modes and deployment challenges in applied AI

Natural language processing and text classification

Responsible and interpretable machine learning

Education

S R University India
Bachelor of Technology in Computer Science Engineering (CGPA: 9.6) *Aug 2023 – Present*

Technical Skills

Programming Languages: Python, Java, JavaScript

Web Technologies: HTML, CSS

Machine Learning & NLP: Scikit-learn, TensorFlow/Keras, NLTK, SpaCy

Databases: SQL, DBMS

Tools: Git, Figma

Patents (Published)

An AI-Powered System for Automated Loan Sanctioning and Real-Time Data Integration India
Co-Inventor *Jun 2025*

- Designed an AI-driven system for automated credit eligibility assessment using machine learning.
- Integrated real-time data pipelines with emphasis on reliability, traceability, and system accountability.
- Contributed to system-level architecture and patent documentation.

Research Work in Progress

Survey paper on *Reliability and Robustness of Machine Learning Systems in Real-World Applications.*

Conducting literature review on failure modes, bias, and deployment challenges in applied machine learning systems.

Analyzing existing evaluation frameworks and real-world case studies.

Projects

Online Banking System (Java) Dec 2025 – Jan 2026

- Developed a Java-based banking system with authentication and transaction handling.
- Implemented deposits, withdrawals, fund transfers, and CAPTCHA verification.
- Focused on robustness, misuse prevention, and failure handling.

Fake News Detection (ML + Deep Learning) Sep 2025 – Nov 2025

- Built a full NLP pipeline including preprocessing, TF-IDF, and word embeddings.
- Trained Logistic Regression, SVM, Random Forest, and LSTM models achieving 92% accuracy.
- Compared ML and DL approaches for performance and generalization.

Foodie Restaurant – Food Ordering Web App Oct 2025 – Nov 2025

- Built a responsive food ordering platform with cart and checkout functionality.
- Designed UI using HTML/CSS and implemented dynamic behavior using JavaScript.

Twitter Sentiment Analysis Jun 2025 – Jul 2025

- Built a sentiment analysis pipeline for tweets using ML models.
- Visualized sentiment distributions for insights.

Text Classification using NLP May 2025 – Jun 2025

- Implemented NLP preprocessing and trained ML models for multi-class classification.
- Evaluated models using accuracy, F1-score, and confusion matrices.

Heart Disease Prediction Mar 2025 – Apr 2025

- Built a machine learning model to predict heart disease risk from structured clinical data.
- Performed data preprocessing, feature selection, and model evaluation.

Donation Website Sep 2024 – Nov 2024

- Developed a donation platform with authentication and form validation.
- Ensured responsive UI and secure user interactions.

Academic Activities

Participated in hackathons and team-based software development projects

Team lead for academic project development