

# Shashank Kamble

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## SUMMARY

Master's student in IT & Analytics with a strong interest in applied machine learning and model evaluation. Hands-on experience building and analyzing ML pipelines using Python, with a focus on data preprocessing, experimentation, and interpreting model behavior. Particularly interested in ML systems that interact with human data, language, and healthcare-related domains.

## EDUCATIONAL QUALIFICATIONS

### RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY

AUGUST 2025 - PRESENT

*Master of Information Technology & Analytics (AI Concentration)*

#### NEW BRUNSWICK, NJ

**Relevant Coursework:** Analytics for Business Intelligence, Business Data Management, Algorithmic Machine Learning, Business Analytics Programming, Project Management

### ST. FRANCIS INSTITUTE OF TECHNOLOGY (Mumbai University)

JUNE 2021 - MAY 2025

*Bachelor of Engineering in Computer Science (Honors: Cyber Security)*

#### MUMBAI, INDIA

- CGPA: 8.57/10 (equivalent to ~3.4/4.0)

**Relevant Coursework:** Data Structure and Algorithms, Database Management Systems, Software Engineering, Artificial Intelligence, Data Warehousing and Mining, Probability and Statistics, Machine Learning

## RELEVANT SKILLS

**Programming:** Python (primary), SQL

**Data Processing:** Pandas, NumPy, data cleaning, feature preparation

**Machine Learning:** Supervised learning (classification, regression), basic clustering

**NLP & Text Analysis:** Text preprocessing, feature extraction, model-based evaluation

**Model Evaluation:** Train/test splits, cross-validation, accuracy, precision/recall, confusion matrices, error analysis

**Tools & Workflow:** Jupyter Notebook, Git/GitHub, experiment tracking via notebooks

## RELEVANT PROFESSIONAL EXPERIENCE

### All India Radio (AIR), Government of India - Research & Programming Intern

JUNE 2023 - JULY 2023

- Worked with structured datasets to analyze patterns in audience feedback
- Supported data preparation and analysis tasks used in internal research reporting
- Strengthened data analysis and interpretation skills in a real organizational setting

### CodSoft - Data Analytics Intern (Project-Based)

JUNE 2024 - JULY 2024

- Worked on multiple structured datasets to perform data cleaning, exploratory analysis, and visualization
- Built analytical reports and dashboards using Python, Excel, and visualization tools to derive insights
- Interpreted trends and patterns to support business-style decision-making scenarios

## SELECTED PROJECTS

### Machine Minds – Psychotherapeutic Evaluation of LLMs (Python, Statistical Analysis)

[\[GitHub\]](#), [Publication](#)

- Designed and ran an evaluation pipeline to study LLM behavior in therapeutic-style conversational scenarios, focusing on response quality rather than task accuracy
- Generated and cleaned multi-turn conversational datasets using structured prompts for analysis
- Analyzed coherence, response consistency, and sentiment-related indicators of empathetic tone across model outputs
- Compared results across scenarios to identify behavioral patterns, failure cases, and limitations

### FactCheckr – Fake News Detection (Python, Scikit-learn)

[\[GitHub\]](#)

- Performed text preprocessing and feature extraction on labeled news datasets to prepare data for classification
- Trained and evaluated multiple models using standard ML metrics, including confusion matrices
- Analyzed error patterns and model limitations to understand trade-offs in classification performance

### Eye Disease Classification (Academic ML Project) (Python, Machine Learning)

[\[GitHub\]](#)

- Built a supervised learning pipeline for image-based disease classification, including preprocessing and model training
- Evaluated model performance using accuracy and validation metrics
- Worked with real-world medical image data, addressing noise and data quality challenges

## EXTRA-CURRICULARS

### Computer Society of India (CSI) - SFIT Student Chapter

*Creative Head* | July 2022 – May 2024

- Led cross-functional teams and coordinated event planning
- Communicated insights and outcomes using visual storytelling and presentations