SUYASH NARESH MADHAVI

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Aspiring Computer Scientist | Proficient in AI, ML, Data Science, and Software Development | Passionate about applying data science and software development across diverse domains, including healthcare, finance, and operations.

EXPERIENCE

GrayQuest, *Tech Intern* – Mumbai, Maharashtra, India   Feb 2023 – June 2023
- Created Python scripts for database automation, reducing manual processing time by 25%.
- Developed APIs for data logs, improving system monitoring by 15%.
- Conducted manual testing scenarios for pre-production webpages, identifying and resolving critical 50+ errors.

EDUCATION

Stevens Institute of Technology – Hoboken, NJ, USA   Expected Graduation: May 2026
Master of Science in Computer Science |

University of Mumbai – **Mumbai, MH, India**   Graduated: August 2022
Bachelor of Engineering in Computer Engineering |

RELEVANT COURSEWORK

CS 556 – Machine Learning	CS 678 - Big Data Technology	CS 584 - NLP
CS 583 - Deep Learning	CS 541 - Artificial Intelligence	CS 631 - Data Management

SKILLS

- **Languages:** C++, Python, HTML,
- **Framework:** TensorFlow, Keras, Pytorch, HuggingFace, Hadoop, Spark, Cloud
- **Databases:** MySQL, PostgreSQL
- **Tools:** Git, GitHub, Jupyter Notebook, Google Colab, Dbeaver,
- **Operating System:** Windows, Linux

ACADEMIC PROJECTS

Privacy Preserving NLP through federated learning free medical text analysis   Sept 2024
- Developed a secure, privacy-preserving NLP pipeline for analyzing sensitive medical text data using federated learning.
- Implemented federated algorithms to ensure data confidentiality across distributed nodes and achieved high model accuracy.
- Demonstrated knowledge of federated learning principles, NLP techniques, secure data handling in healthcare applications.

Multiclass Object Classification in Autonomous Driving   Nov 2024
- Developed a deep learning model to classify multiple object categories in autonomous driving scenes in real-world datasets.
- Integrated image preprocessing, feature extraction, and CNN-based classification to achieve high accuracy.
- Deployed the project on streamlit for better user experience.

PERSONAL PROJECTS

Sentiment Analysis with Text Classification   Oct 2024
- Developed a machine learning model for sentiment analysis, classifying text data into positive, negative sentiments.
- Integrated feature extraction techniques like TF-IDF and word embeddings for better text representation.
- Utilized popular NLP, ML libraries like NLTK, sklearn and TensorFlow/Keras to build and train the model.

Patient Outcome Prediction Analysis   Dec 2024
- Developed a predictive model to analyze EHRs to forecast patient outcomes like readmission risks and disease progression.
- Implemented Data Science modules to predict readmission probability and optimize treatment intervention.
- Focused on personalized treatment by identifying high-risk patients for early intervention to improve healthcare outcomes.

PROFESSIONAL ASSOCIATIONS

Member of the ACM committee at Pillai's HOC College of Engineering and Technology

CERTIFICATIONS

Python Data Structures & Algorithms

Machine Learning A-Z: Hands-On Python & R in Data Science

The Python Mega Course: Build 10 Real World Applications