SUYASH NARESH MADHAVI

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EDUCATION

Stevens Institute of Technology **May 2026**
Master of Science, Computer Science
- **Coursework:** CS 556 - Machine Learning, CS 583 - Deep Learning, CS 678 - Big Data Technology, CS 584 - NLP, CS 541 - Artificial Intelligence, CS 631 - Data Management

University of Mumbai **Aug 2022**
Bachelor of Engineering, Computer Engineering

EXPERIENCE

GrayQuest **Feb 2023 - Jun 2023**
Backend Intern *Mumbai, Maharashtra, India*
- Developed Python scripts for database automation, reducing manual processing time by 25% while incorporating cloud computing concepts.
- Engineered APIs for data logs that enhanced system monitoring by 15%, showcasing proficiency in Python and understanding of data structures.
- Executed comprehensive manual testing scenarios for pre-production webpages, identifying and resolving over 50 critical errors to improve system performance.

ACADEMIC PROJECTS

Privacy Preserving NLP through federated learning free medical text analysis **Sep 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.

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.

SKILLS

- **Languages**: C++, Python, HTML
- **Frameworks & Libraries**: TensorFlow, Keras, Pytorch, HuggingFace, Hadoop, Spark, Cloud
- **Databases**: MySQL, PostgreSQL
- **Development Tools**: Git, GitHub, Jupyter Notebook, Google Colab, Beaver
- **Operating Systems**: Windows, Linux
- **Programming Fundamentals**: Algorithms, Data Structures
- **Software Development**: Software Development
- **Cloud Technologies**: Cloud Computing Tools
- **Simulation Tools**: Engineering Simulation Tools
- **Testing & Quality Assurance**: Unit Testing
- **Core Competencies**: Complex Systems Understanding

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**