HARSHITHA SARABUDLA

(203) 901-9252| harshithaareddy14@gmail.com| LinkedIn: linkedin.com/in/sarabudla-harshitha/| GitHub: github.com/Harshithaa14

PROFESSIONAL SUMMARY

Master's student in Data Science with a solid background in Machine Learning, Data Analytics, and AI-based solutions. Skilled in Python, SQL, R, and AWS, I have practical experience in predictive modeling, big data analytics, and cloud computing. I am passionate about using data-driven insights to tackle real-world challenges across finance, healthcare, and technology industries. With expertise in handling large datasets, performing statistical analysis, and creating data visualizations, I am eager to apply my academic research and technical knowledge to contribute to innovation in a fast-paced, data-centric environment.

CORE COMPETENCIES:

Data Science & Machine Learning:	▪ Statistical Analysis ▪ Predictive Modeling ▪ Big Data Analytics ▪ NLP ▪Deep Learning
Programming & Tools:	▪ Python ▪ SQL ▪ C ▪ R ▪ AWS ▪ Power BI ▪ Tableau ▪ TensorFlow
Research & Analysis:	▪Architectures ▪ Data Science Pipelines ▪ Exploratory Data Analysis ▪ A/B Testing
Data &AI Product Management:	▪ Business Planning ▪ Product Lifecycle Management ▪ Cross-functional Collaboration
Emerging Skills & Technologies	▪ Cloud Computing (Azure, Google Cloud) ▪ Generative AI

EDUCATION

Tagliatela College of Engineering, University of New Haven ▪ West Haven, CT
Master of Science in Data Science ▪ Expected: 2026

- **Coursework:**
  ▪ Machine Learning ▪ Big Data ▪ Data Visualization ▪ Deep Learning ▪ Natural Language Processing (NLP) ▪ Leadership in Data & AI Products ▪ Data Ethics ▪ etc.
- **Tools:**
  ▪ Python ▪ R ▪ SQL ▪ TensorFlow ▪ Hadoop ▪ Tableau ▪ AWS Athena ▪ Power BI

Anurag University ▪ Hyderabad, Telangana, India
Bachelor of Technology in Computer Science Engineering ▪ Graduated: 2024

Narayana Junior College ▪ Hyderabad, Telangana, India
Intermediate (MPC - Mathematics, Physics, Chemistry) ▪ Completed: 2020

Panchavati Vidyalaya ▪ Mahbubnagar, Telangana, India
Secondary School Certificate (SSC) ▪ Completed: 2018

DATA & AI PROJECTS AND PORTOFOLIO University of New Haven ▪ West Haven, CT

February 2025–Present

Master of Science in Data Science/Tagliatela College of Engineering (Ongoing)

- **Project 1 Project 1 AI4I 2020 Predictive Maintenance Dataset Analysis**

  - Developed predictive models to anticipate machine failures using AI4I 2020 dataset.

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- Conducted Exploratory Data Analysis (EDA) to identify key failure factors such as temperature, torque, and tool wear.
- Implemented Logistic Regression & Random Forest models, achieving 87% accuracy in failure prediction.
- Proposed an automated predictive maintenance system to improve machine reliability and prevent unexpected failures.
- Tools Used: Python, Pandas, Scikit-Learn, Matplotlib, Seaborn
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- **Project 2 Appliances Energy Prediction Dataset Analysis**
  - Analysed energy consumption patterns in households using a multivariate time-series dataset.
  - Built regression models to predict appliance energy usage based on environmental conditions.
  - Conducted feature engineering, normalizing temperature, humidity, and wind speed data to improve model performance
  - Applied Linear Regression, Random Forest, and Neural Networks, achieving high accuracy in energy consumption prediction. Evaluated models using Mean Squared Error (MSE) and R^2 metrics.
  - Tools Used: Python, NumPy, Pandas, Scikit-Learn, TensorFlow, Matplotlib.

Secure File sharing using blockchain and cryptography ▪Hyderabad, Telangana, India

Blockchain Developer, Anurag University| B.Tech in CSE ▪ April 2024

- Unlike traditional centralized file-sharing systems, this approach eliminates the need for a trusted intermediary by utilizing the power of blockchain for transparency and cryptography for secure file encryption and authentication.
- Aims to create a decentralized, secure, and efficient system for sharing files over a distributed network, leveraging blockchain technology and cryptographic techniques.
- The key objective is to ensure data privacy, integrity, and ownership control without relying on centralized authorities like traditional cloud service providers
- Tools used: RSA encryption, Ethereum, Inter planetary File System (IPFS).

PROFESSIONAL Portfolio ▪ New Haven, United States

- **Professional Portfolio** | New Haven, United States
  Data & AI Projects |
  ▪ Access my professional portfolio: https://harshithaa14.github.io/harshithaa14-github.io/

LinkedIn Link : https://www.linkedin.com/in/sarabudla-harshitha/

Website Link: https://harshithaa14.github.io/harshithaa14-github.io/

Github Link : https://github.com/Harshithaa14

PROFESSIONAL CERTIFICATIONS & MEMBERSHIPS

HTML Essential Training	*LinkedIn Learning*	January 2025
Data Science Foundations: Data Engineering	*LinkedIn Learning*	January 2025
Python: Working with REST and WEB Data	*LinkedIn Learning*	January 2025

LANGUAGES

Python	*Anurag University*	July 2023
C	*Anurag University*	June 2022