SUSILKESSAV S B

seshadribhuvaneswa.s@northeastern.edu | +1 (617) 396-1430 github.com/Susilkessav | linkedin.com/in/susilkessav Boston, MA

Education

Northeastern University June 2025
M.S. in Data Analytics Engineering
Relevant Courses: Big Data Management, Data Visualization, Machine Learning, Maths, Data Science, OOP Data Mining, Data Analysis, Algorithms and Data Structures, Data Management.

Amrita Vishwa Vidyapeetham June 2023
B.Tech in Electrical and Computer Science Engineering

Skills

Languages: Python, R, SQL, C, Matlab.
Technologies & Tools: NumPy, Pandas, Scikit-Learn, Keras, TensorFlow, Pytorch, SQL, Tableau, AWS, Docker, Apache Spark, Git, Linux, Power BI, Big Data, Matplotlib, Seaborn, ggplot2, Plotly, SciPy, dplyr, BeautifulSoup, NLTK.
Specialties: Data Mining, Time Series Analysis, Predictive Modeling, Natural Language Processing, Business Intelligence.

Experience

Getinge Wayne, NJ July 2024 - Present
Data Engineer Intern

- Optimized ELT pipelines using PySpark and Python, reducing processing time by 15% and improving data accuracy by 20%, while integrating machine learning models for enhanced decision-making and real-time analytics.
- Developed Azure-based data pipelines and a chatbot for automating data queries, improving system reliability and user interaction, and effectively handling millions of data entries and collaborated with cross-functional teams to deploy AI-driven solutions, streamlining data processes and enhancing overall platform performance.

CISAI Amritapuri, India August 2022 - February 2023
SOC analyst

- Implemented cybersecurity strategies that use AI to automate identifying and mitigating threats and managing incidents, increasing early threat detection by 25%.
- Conducted forensic analysis in response to security incidents, created detailed reports on security issues and researched emerging threats and vulnerabilities to protect the organization from attacks.

EasyCrop Tech Pvt. Ltd., Hyderabad, India December 2021 - June 2022
AI Intern

- Orchestrated the collection of a vast dataset of 10,000+ plant images, built and deployed AI models on AWS for plant image classification using neural networks, achieving a 95% accuracy rate in identifying plant species and diseases.
- Collaborated with stakeholders to define project requirements and ensure successful implementation of AI solutions.

Projects

Formula 1 Race Prediction January 2024 - April 2024

- Data processing pipeline using PySpark to clean, transform, and enhance data and Formula 1 datasets to ensure accuracy and relevance for predictive modeling.
- Employed advanced machine learning algorithms to predict the finishing positions of drivers, focusing on the top 20 to account for variations in yearly driver counts.

Mental Health Tracking October 2023 - February 2024

- Developed a Mental Health Tracking System that integrates wearable technology to actively monitor and analyze physiological indicators like heart rate variability, sleep quality, and activity levels.
- Utilized MySQL and NoSQL databases along with Python for back-end processing, ensuring the capture and analysis of health data in real time to provide actionable insights and presented findings and insights through a user-friendly dashboard using Tableau, enhancing user engagement and proactive health management.

Loan Prediction Model February 2023 - August 2023

- Designed and implemented a loan eligibility assessment model using Python data processing and ensemble learning techniques, improving accuracy by 30%.
- Applied classification algorithms followed by ensemble techniques to improve predictive power and deployment of the model into a production environment, facilitating real-time loan assessments and reducing processing times by 50%.

Publications

Peer-to-Peer Energy Trading Using Blockchain in Microgrid, IEEE December 2022 - June 2023

- Designed a prototype that integrates a microgrid and blockchain to trade electricity without an intermediary.
- Smart contracts and an interface which together form a microgrid management system creating a peer-to-peer platform for Users to trade electricity and thereby contributing towards sustainable and affordable energy.
- Conducted testing and simulations to validate the performance, scalability, and reliability in real-world environments.