Rhutam Mahajan

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Education

University of Maryland, College Park 2025 – 2027
M.S. Data Science GPA: 4.0/4.0
Relevant Coursework:
DATA601 : Probability and Statistics - Grade A
DATA602 : Principles of Data Science - Grade A
DATA603 : Principles of Machine Learning - Grade A

Savitribai Phule Pune University 2021 – 2025
B.E. Computer Engineering(Hons in Data Science) CGPA: 8.5/10

Experience

AI/ML Intern — InternPe (Remote) Feb 2024 – Mar 2024

- Built machine learning models in Python to predict cricket match outcomes using historical match data.
- Performed data preprocessing, feature engineering, and model evaluation using logistic regression and random forest classifiers.

Junior Data Scientist — Gamaka AI Dec 2023 – Mar 2024
Pune, India

- Cleaned and analyzed structured datasets using SQL and statistical techniques to generate actionable insights.
- Developed an expense tracker application supporting create, read, update, and delete operations.

Projects

Neural Network for Multiclass Image Classification Fall 2025

- Built and trained a feedforward neural network using TensorFlow and Keras on the MNIST dataset with 70,000 images, achieving 97% test accuracy.
- Implemented data preprocessing including normalization, reshaping, and one-hot encoding, and evaluated multiple activation functions.

Dimensionality Reduction using PCA Fall 2025

- Applied principal component analysis to reduce feature dimensionality and improve downstream model efficiency.

Plant Leaf Disease Classification using Few-Shot Learning Aug 2024 – May 2025

- Designed a multilevel deep learning system using EfficientNet and prototypical networks for rare disease classification.
- Achieved 94% training accuracy and 91% validation accuracy and deployed the model as a Flask-based web application.

Skills

- **Programming Languages:** Python, Java, SQL, HTML, CSS, Javascript
- **Frameworks and Libraries:** Feedforward Neural Networks, Convolutional Neural Networks (CNNs), Few-Shot Learning,TensorFlow, Keras, NumPy, Pandas, Scikit-learn
- **Data and Visualization Tools:** Jupyter Notebook, Power BI, Tableau.
- **Databases:** MySQL, Oracle SQL
- **Web Services and Deployment:** Amazon web services (AWS),Flask
- **Development Tools:** Git, GitHub, Anaconda

Publications

Plant Leaf Disease Multilevel Classification Using Few-Shot Learning, International Journal of Research and Analytical Reviews(IJRAR), May 2025.