NEERESH KUMAR PERLA
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Education

University of Massachusetts Dartmouth — North Dartmouth, United States
Masters in data science — Dec 2022 – Expected Dec 2025

Mahatma Gandhi Institute of Technology (MGIT) — Telangana, India
Bachelors in electrical and Electronics Engineering; — July 2016 – September 2020

Work & Research experience

Cognizant — Hyderabad, India
Programmer Analyst — Mar 2021 – Dec 2022

- Completed coding challenges and project deliverables: mini-project, main project, and hackathon.
- Developed automation scripts using Selenium in Java based on requirements.

Java and Digital Data Engineering Intern — Feb 2020 – Sep 2020

- Developed an end-to-end java web application that stores user-entered data in the database.
- Developed an ALS model with over 100k rows of data for recommending movies to the user.

Wingfotech Pvt. Ltd. — Hyderabad, India
Artificial Intelligence Intern — May 2019 – Jul 2019

- Responsible for learning, building, and researching different kinds of machine learning algorithms and applying them to real-world datasets.

An Experiment on Covid-19 Face Mask Identification Using Various Machine Learning Classification Algorithms: June 18, 2020

- Developed a classification model which classifies whether the person is wearing a face mask or not.
- Status: In proceedings, Paper ID**:** ICRSCIT-0209 and ISBN No: 978-93-80831-66-4

Projects https://github.com/neeresh

Survey-Based Project

- Performed a survey on 16 questions from the students (graduates and below) to answer the question: Does teaching in the regional language affect their knowledge of the topic?
- Built a classification algorithm and achieved 71.9% training accuracy and 67.7% test accuracy.

Data Science Salary Prediction

- Performed web scraping to collect the data from glass door website.
- Performed data analysis, feature engineering, feature selection and built a regression model to predict salary.

Disorders

- Performed Artificial Neural Networks (ANN) to classify 3 diseases and achieved 91.5% accuracy on the test data and developed a pipeline to automate classifying the unseen dataset.

Spaceship Titanic

- Performed Feature Selection techniques such as Exhaustive Feature Selection, Step-backward feature selection and Lasso to compare the model's output across all feature combinations.
- Performed Hyperparameter Optimization such as Grid Search and Bayesian Optimization to improve the model accuracy. And finally built a Pipeline to score new data.

Skills

- **Languages** – Python, Java, SQL, C, JavaScript, HTML, CSS, R, Scala, MATLAB.
- **Frameworks** – NumPy, Pandas, Matplot, Seaborn, Selenium, Scikit-learn, Tensorflow, feature-engine, yellow bricks, Mlxtend, Skopt, Matplotlib, Seaborn, OpenCV, SQLAlchemy, Hadoop.