NEERESH KUMAR PERLA

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CAREER SUMMARY

Passionate and dedicated data science enthusiast actively honing skills through self-study, practical application, and participation in public datasets and competitions. Eager to leverage a strong foundation in data science to drive actionable insights and solve complex problems.

SKILLS

Programming Languages: Python, R, SQL, Java, Bash
Data Analysis & Visualization: Excel, Tableau, Power BI, Matplotlib, Seaborn, Plotly
Machine Learning & Statistics: TensorFlow, scikit-learn, NumPy, Pandas, Descriptive Analysis, Predictive Analysis, Hypothesis Testing, Feature Selection, Model Evaluation, Hyperparameter Tuning
Data Wrangling and Cleaning: Data Preprocessing, Data Cleaning, Feature Engineering, Handling Missing Data
Others: High Performance Scientific Computing, Microsoft Azure, NoSQL Databases, Selenium

PROFESSIONAL EXPERIENCE

Programmer Analyst | Cognizant | Hyderabad, India **Mar 2021 – Dec 2022**

- Utilized Selenium, a widely used automation testing tool, along with Java programming language to create automation scripts that would simulate user interactions and verify policy correctness
- Worked closely with cross-functional teams, including business analysts, developers, and quality assurance professionals, to ensure effective coordination and alignment of policy validation efforts.

Data Engineer Intern | Cognizant | Hyderabad, India **Feb 2020 – Sep 2020**

- Gathered and processed a large dataset containing over 100,000 rows of movie-related data, including user ratings, movie information, and user profiles.
- Utilized Apache Spark's MLlib library to implement the ALS algorithm and engineered the data pipeline to transform and preprocess the dataset, ensuring data quality and compatibility with the ALS model.

Artificial Intelligence Intern| WingfoTech Pvt. Ltd | Hyderabad, India **May 2019 – Jul 2019**

- Engaged in extensive self-learning to develop a comprehensive understanding of diverse machine learning algorithms, including but not limited to decision trees, random forests, support vector machines, and neural networks.
- Developed data preprocessing pipelines to clean, transform, and prepare the datasets for machine learning tasks, ensuring data quality and consistency.
- Explored techniques for feature engineering, dimensionality reduction, and hyperparameter tuning to improve the effectiveness of the models.

PROJECTS

Fast and Reliable Determination of Gravitational Wave Merger Sky Locations Using Fixed Masses and Variable Parameters

- Extracted and preprocessed data from the LIGO and Virgo observatories, which capture gravitational wave signals from celestial events such as black hole mergers and neutron star collisions.
- Achieved an impressive alignment of sky locations for gravitational wave mergers, with a close match of approximately 98% compared to the originally published values, demonstrating the high accuracy and reliability of the developed method.

Survey-Based Project

- Administered the survey to a representative sample of students, considering factors such as demographics, educational levels, and regional language backgrounds to ensure a diverse range of responses.
- Examined the responses to identify patterns, correlations, and variations, enabling a comprehensive understanding of the impact of teaching in the regional language on students' knowledge.
- Attained impressive classification performance, showcasing ROC-AUC scores of 0.72 (training) and 0.68 (testing).

Data Science Salary Prediction

- Conducted web scraping on Glassdoor to collect salary data, followed by data analysis, feature engineering, and feature selection to prepare the dataset for regression modeling.
- Built a regression model using the processed data to predict salaries, leveraging techniques such as feature engineering and selection to enhance model performance and accuracy.

EDUCATION

University of Massachusetts Dartmouth, North Dartmouth, MA **Dec 2022 – present**
Master of Science in Data Science **GPA – 4.0 / 4.0**

Jawaharlal Nehru Technological University, Hyderabad, India **Jul 2016 – Sep 2020**
Bachelor of Technology in Electrical and Electronics Engineering **GPA – 6.82 / 10.0**