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KARTHIKEYAN RAVICHANDRAN

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Summary

Experienced Data Scientist with expertise in enhancing user interfaces and developing advanced data models. Proficient in machine learning, including predictive modeling and neural networks, with a strong aptitude for problem-solving. Skilled in transforming complex data into actionable insights using Power BI and Tableau.

Skills

Technical Skills:
- Programming Languages: Python (OpenCV, Tensorflow, Scikit-Learn), R, Java, C++.
- Data Visualization: Matplotlib, Seaborn, Power BI Tableau.
- Data Wrangling.
- Feature Engineering.
- Machine Learning: Regression, Classification, Clustering, Neural Networks.
- Statistical Analysis: Hypothesis Testing, Regression Analysis.
- Database Querying: SQL, Oracle.
- Big Data Technologies: Hadoop, Spark.

Data Analysis Tools:
- Excel (Pivot tables, VLOOKUP, PHStat)
- Jupyter Notebooks
- Google Colab

Soft Skills:
- Problem-Solving: Identifying and solving complex data-related problems.
- Critical Thinking: Analyzing data to derive actionable insights and recommendations.
- Communication: Effectively presenting findings to both technical and non-technical stakeholders.
- Collaboration: Working collaboratively in cross-functional teams to achieve project goals.

Experience

Coincent AI | Chennai, Tamil Nadu
Data Science Intern
09/2022 - 06/2023

- Performed exploratory data analysis on a dataset of 10,000 records, resulting in the identification of 50 actionable insights.
- Boosted data migration process efficiency by 25% through streamlined extraction, cleansing, loading, and verification procedures.
- Developed interactive dashboards using PowerBI and Tableau software.
- Constructed supervised and unsupervised learning models using Python libraries like Scikit-Learn, TensorFlow, and Keras.
- Analyzed customer behavior using predictive analytics techniques such as regression, clustering, and decision trees.
- Optimized existing models by feature engineering and deployed trained models.

Tata Consultancy Services | Chennai, Tamil Nadu
System Engineer
07/2021 - 08/2022

- Collaborated with business analysts to identify system requirements for new features and functions.
- Prepared technical design documents based on the functional specifications given by stakeholders.
- Optimized existing application logic by refactoring inefficient code segments or introducing newer technologies like AJAX and REST APIs.
- Integrated web services into the existing Pega applications using SOAP and REST protocols.
- Assisted in the development of automated reports to monitor key

performance indicators.

Education and Training

University of Houston | Houston
Master of Science in Engineering Data Science
Expected in 05/2025
GPA: 4.0/4.0
- "Optimizing Neural Network Performance on MNIST Fashion Dataset: A Hyperparameter and Technique Exploration Study".
- "Exploring Wine Characteristics: Clustering Analysis and Evaluation".

Rajalakshmi Engineering College | Chennai
Electrical, Electronics And Communications Engineering
04/2021
GPA: 9.4/10.0
- Research: "Mitigation of Class Imbalance in identification of abnormalities and prediction of Coronary Diseases using Artificial Intelligence."
- Food365, Capstone Project: "Revolutionizing food delivery through innovative Pega technology, our app ensures seamless ordering and prompt delivery of delectable meals."

Certifications

- Azure AI Fundamentals
- SQL for Data Science
- Machine Learning Onramp in MATLAB
- Deep Learning Onramp in MATLAB
- PEGA Certified Senior System Architect

Websites, Portfolios, Profiles

- www.linkedin.com/in/karthikeyan-ravichandran-24430517a
- https://www.novypro.com/profile_projects/karthikeyanr
- https://github.com/Karthiknmsd37