

KARTHIKEYAN RAVICHANDRAN

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WWW: [Bold Profile](#)

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

DATA SCIENCE INTERN | 09/2022 - 06/2023

Coincent AI - Chennai, Tamil Nadu

- Performed exploratory data analysis on large datasets to identify patterns and trends.
- Boosted data migration process by extracting, cleansing, loading, and verifying information.
- 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 into production systems.

SYSTEM ENGINEER | 07/2021 - 08/2022

Tata Consultancy Services - Chennai, Tamil Nadu

- 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

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>