KRISHNAPRAKASH K R

Engineer, Data science and analytics

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Experience

- **Yield Engineer - Data Science and Analytics, GlobalFoundries Engineering Private Ltd, Bengaluru.** *October 2022 – June 2024*

  Implemented statistical and data analysis techniques for risk prediction and RCA on large volume test data using machine learning predictive model pipelines. Contributed data-driven insights using regression models to multiple cost saving projects.

- **Intern, GlobalFoundries Engineering private Ltd, Bengaluru.** *March 2022 – Sept 2022*

  Leveraged R and Python classification tools to identify failed wafers for disposition decisions

Education

- **Master of Science** in **Physics**, University of Kerala, Thiruvananthapuram | GPA**: 3.6** 2022

Skills

- **Data Cleaning, Manipulation and EDA:** Proficient in R (dplyr, tidyr, data.table) and Python (Pandas, NumPy, Matplotlib, seaborn) with SQL query. Implementing interactive dashboards using R (ggplot2, Shiny), Python (Plotly, Streamlit) and Power BI.

- **Machine Learning**: Python scikit-learn predictive and classification model pipelines, Linear and logistic regression, Random Forest, Naive Bayes, k-NN, A/B testing, k-means clustering, time series data, refining model scores by feature engineering, hyperparameter tuning. CI/CD Machine learning pipelines via Git and AWS Codepipeline. Flask for Machine learning web app support.

- **Advanced Mathematics and Statistics**: Foundation and hands-on skills in calculus and statistical analysis tests.

- **Development technologies:** ES6 JavaScript, HTML, CSS, version control with Git

Achievements

- **Paper Publication:** *Wave perturbations in Earth's thermosphere in conjunction with X1.7 solar flare: Observational perspective*, published in **Elsevier (Aug 15, 2023, Department of Physics, University of Kerala and Indian Institute of Tropical Meteorology, Bhopal 411 008, India.** This study evaluates satellite data to examine the effects of a solar flare on neutral winds and wave perturbations using MATLAB, Python (pandas, Matplotlib, NumPy), and Excel.
  https://www.sciencedirect.com/science/article/abs/pii/S0273117723006750?via%3Dihub

o Developed method to capture early production line signals using triggered p-values for Early Fail Containment Project which significantly reduced around 6% total cost in the production process. Achieved successful completion of multiple Device dataset classification requests

Projects   *https://www.krishnaprakash.in/works*

- Airline price prediction web app: ML prediction model pipeline using flask for frontend.
- Spam Email Classifier: A Shiny web app developed in R-Studio using the k-Nearest Neighbours (k-NN) Algorithm.
- Startup funding distribution visualizer - Interactive dashboard web app supported by Python streamlit.
- Weather Prediction: A Python Streamlit web app leveraging the Random Forest model.
- Official Website, Department of Physics – University of Kerala, HTML/CSS/JavaScript/Bootstrap/Firebase.

Courses and Certifications

o Crash course in Python, Certified by Google, Coursera
o Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning, Coursera
o Prompt Engineering for ChatGPT, Vanderbilt University, Coursera
o Course in Cybersecurity Roles, Processes and Operating System security by IBM, Coursera
o AWS Cloud Practitioner Essentials, AWS
o Foundations of User Experience (UX) Design, Certified by Google, Coursera
o Fundamentals of Digital Marketing, certified by Google

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