KRISHNAPRAKASH K R

Engineer, Data science and analytics

http://www.krishnaprakash.in | www.linkedin.com/in/krishnaprakash97 | https://github.com/KPKR1997

krishnaprakash997@gmail.com. Bengaluru. Phone: +91 9072982929

EXPERIENCE

Yield Engineer – Machine learning and risk analytics, GlobalFoundries Engineering Private Ltd, *March* 2022 – June 2024

Developed and implemented predictive model techniques for risk prediction, early yield degradation containment and root cause analysis (RCA) on large volume test data using machine model pipelines. Delivered data-driven insights and solutions for multiple cost-saving projects.

EDUCATION

Master of Science in Physics, University of Kerala, Thiruvananthapuram | CGPA: 9/10

2022

SKILLS

- Data Cleaning, Manipulation and EDA: Python Pandas, NumPy, Matplotlib, seaborn.
- Data dashboards and UI Python streamlit, Flask and Power BI.
- **Machine learning:** Python: Data preprocessing, supervised and unsupervised algorithms, regression and classification models in ensemble method, pipeline automation, anomaly detection, feature engineering, model optimization and hyperparameter tuning.
- Natural Language Processing (NLP) nltk vectorization and embedding techniques.
- **Deep learning**: TensorFlow-keras, Artificial Neural Networks ANN, CNN image classification models and LSTM RNN for text training models.
- Database, Version control and CI/CD Pipeline: MySQL, GitHub, AWS EC2 and Code pipeline.
- Advanced Mathematics and Statistics: Calculus in Physics, numerical methods and Statistics.

ACHIEVEMENTS

- Publication: Wave perturbations in Earth's thermosphere in conjunction with X1.7 solar flare:
 Observational perspective, published in Elsevier (Aug 15, 2023, University of Kerala and Indian Institute of Tropical Meteorology, Bhopal. (Python EDA, Origin Pro and Matlab)
- Developed IYDC (Inline Yield Degradation Containment System) as part of cost saving project. The system trained with 3 years production data to detect anomalies and predict fails to cut processing cost and scrap fails before end of line.

PROJECTS (https://www.krishnaprakash.in/works or GitHub)

- Process step detection model provides local interpretability for root cause analysis
- IYDC pipeline for early risk prediction in large scale production environment.
- Credit card fraud detection streamlit web app. (hobby)
- Airline price prediction web app. (hobby)
- NLP project on Sentiment analysis. (hobby)
- Churn prediction script: streamlit web app model with ANN using churn modelling dataset. (hobby)