Nihal J

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Experience

Intern Analyst Dec 2023 – Present
LEAPS by Analyttica *Bangalore, KR*

- Tasked with creating courses, enhancing content and improving the functionality of LEAPS which is a B2B Data Science learning platform for leading engineering, automobile and manufacturing companies.
- Created a Key Performance Indicator course relevant for Banking sector. The course explains the end to end life cycle of a data driven project that is used to assess the performance of a financial institute.
- Developed a course on Data Transformation Techniques and Basics of Linear Algebra for Machine Learning. The course includes article explanations paired with a virtual environment to apply learnt concepts on sample datasets.

Data Science Intern July 2023 – Dec 2023
CodeNeutral Technologies *Bangalore, KR*

- Developed an 88% accuracy Neural-Network based classification model that predicts the presence of pores or imperfection during manufacturing of engine blocks.
- Currently working on building a model for user review topic identification using a light weight language model for a large clothing retailer.

Graduate Apprentice Trainee Sept 2021 – Oct 2022
Gas Turbine Research Establishment, DRDO *Bangalore, KR*

Projects

Pore Detection | *Python, pandas, scikit-learn, PyTorch*

- Built a classifier that predicts if defects(pores) is present in a manufacturing process thus reducing cost of inspection for defective products.
- Worked on an imbalanced dataset, used Random Forest model to extract important features and built a neural network classifier which produced an accuracy of 88% and 70% recall.

Movie Review Sentiment Analysis | *Python, HuggingFace, FastAPI, Docker*

- FineTuned the BERT model on large movie reviews database improving its accuracy from 88% to 93%.
- Added a FastAPI endpoint which returns the predicted sentiment with confidence score and dockerized the application for faster and reliable deployment. *https://github.com/nihal-DS/Sentiment_Analysis*

Euro Soccer Analysis | *Python, pandas, Matplotlib, scikit-learn, statsmodel, SQLite*

- Built a regression model to predict 'overall score' of a soccer player based on various player attributes.
- Gathered data from a SQLite file involving multiple joins between tables. Performed data cleaning, exploratory data analysis and visualized key insights using matplotlib.
- Explored various linear models (Ridge, Lasso) and feature selection technique like backward elimination to obtain a satisfactory model with lowest RMSE value. *https://github.com/nihal-DS/Euro-Soccer-Analysis*

Skills Summary

Technical: Classification, Regression, Clustering, NLP, LLM, Feature Engineering, Dimensionality Reduction Techniques, GenAI
Data Analytics & Statistics: Cleaning, Visualization, Scraping, Descriptive and Inferential Statistics
Software: Python, SQL (PostgresSQL, MySQL), Docker, Git, Excel
Libraries: NumPy, pandas, matplotlib, Seaborn, scikit-learn, PyTorch, TensorFlow

Education

Ramaiah Institute of Technology June 2017 – Aug 2021
BTech - Mechanical Engineering *Bangalore, KR*

Training & Certification

Advance Data Science Nov 2022 – July 2023
Corpnce Technologies *Bangalore, KR*
Introduction to Statistics Oct 2022 – Nov 2022
Coursera (Stanford University) *https://coursera.org/share/2c2e9e6804c6fffe0b19b438b3765dea*