Ayush Maria

Portfolio | Github | LinkedIn | Email | +91 8525880083

TECHNICAL SKILLS

Languages: Python (Beautiful Soup, Pandas, Numpy, Matplotlib, Seaborn, Sci-Kit Learn, PyTorch, Flask) XGBoost, Azure/AWS, PowerBI
Core Skills: Supervised Learning, Exploratory Data Analysis, Gradient Boosting, Hypothesis Testing, Hyperparameter Tuning

WORK EXPERIENCE

Data Scientist | Instillmotion Labs | Hyderabad, Telangana, India   04/2023 — present
- Engendering LLMs for plotting flight logs using ChromaDB, OpenAI tokens reducing manual data analysis hours below 5%, decreasing processing time from 3 days to 1 hour
- Incorporating YOLO Neural Nets to boost object detection accuracy above 95%
- Implementing data analysis on drone data for market research using PowerBI to upgrade existing drone architecture by 70%
- Creating fixed wing simulation pipeline for 3+ projects reducing project costs by a total of ₹2.0L

Software Developer - Data Analysis(Contract based) | Tactalyse | Groningen, Netherlands (Remote)   08/2022 — 04/2023
- Quantified football player performance by implementing data analysis on football related data by using Pandas, Matplotlib for 50+ clients
- Successfully explained metrics through graph visualisations for 60+ football players by generating reports using libraries Fpdf, Matplotlib
- Deployed the PDF generating software online to scale the software using Flask and GIT boosting sales by 65%
- Created dashboards in Google sheets to display 10+ KPIs related to distinctive areas of software development for each software engineer

Data Handling Intern | Mahyco | Jalna, Maharashtra, India   06/2018 — 07/2018
- Designed ETL pipelines for Data Warehousing using SQL
- Performed data wrangling on 10,000+ datapoints using Pandas Data Frames
- Classified different types of crops by rating them on a scale of 1-10 measured by features like health and type using XGBoost Models with 95% accuracy
- Communicated results to 6+ team members to highlight important trends in data using visualisation through Plotly

PROJECTS

Wine Quality Prediction _GitHub Link_   08/2023 — 09/2022
- Predicted wine quality based on multiple features like Residual Sugar, Density, Fixed Acidity resulting in a quadratic weighted kappa score of 0.584
- Recognized outliers in the dataset in features like volatile acidity using z-score transformations

Analysing Expected Goals (xG) in Football _GitHub Link_   05/2022 — 08/2022
- Extracted football event data from Statsbomb open data repository using Beautiful Soup and Python Requests, Tranformed raw JSON dataset into Pandas Dataframes by using mathematical measures to wrangle the data, Loaded the Data to Google Drive
- Compared chances created by footballers measured by Probability based metrics resulting in player profiling and improvement of transfer market investment using Seaborn for Data Visualization and Logistic Regression, XGBoost, CatBoost and LightGBM Classifiers based on Log Loss and F1 score for Machine Learning

Vortex Core Detection _GitHub Link_   03/2022 — 05/2022
- Executed Data Wrangling, Exploratory Data Analysis and Feature Engineering using Seaborn and Sci-Kit Learn to successfully engineer a Hard Voting Classifier based on Random Forest, XGBoost and AdaBoost Models
- Inspected trends in Vortex Data and predicted vortex core locations validated using Confusion Matrices and AUC with 97.15% accuracy

Distributed Computing with AWS EC2 _GitHub Link_   02/2022 — 03-2022
- Optimised distributed computing on distinct AWS EC2 nodes to determine which node types provide the right computation speed and cost effectiveness
- Devised strategies to verify outputs to confirm 100% result accuracy

EDUCATION

Computational and Software Techniques MSc (Computational Intelligence for Data Analytics)   09/2021 — 09-2022
Cranfield University   _Bedford, United Kingdom_
Bachelor of Technology in Computer Science   07/2016 — 07/2020
Vellore Institute of Technology   _Tamil Nadu, India_

INTERESTS AND ACTIVITIES

Activities: Football, Cooking, Basketball, Dancer (B-boying, Hip-Hop), Music, Gaming, Anime, Science Fiction
Languages: English, Hindi, Elementary Spanish