

Harrison Paul R

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“Numbers whisperer, turning data chaos into strategic clarity”

PORTFOLIO: [Click here](#)

ABOUT

As an aspiring data science enthusiast driven by a profound interest I have dedicated myself to cultivating robust expertise in statistics, EDA, machine learning, deep learning, and Generative AI. My journey is characterized by a deterministic approach to staying updated on industry developments, as evidenced by my project achievements and expanding skill set. Presently, I serve as a backend developer with three years of experience, yet I'm eagerly looking to transition into this exciting field, seeking to leverage my expertise to drive growth and innovation in a fast-paced environment.

SKILLS

Programming Languages	Python, SQL, Java, HTML, CSS
Libraries & Tools	Pandas, Numpy, Matplotlib, Scikit-learn, Hugging face, PyPDF2, Pytorch, TensorFlow, Keras, NLTK, LLM, Langchain, OpenAI, Flask, BeautifulSoup, GIT, Github
Associated Skills	Regression, Clustering & Classification, LLM, Gen AI, Quantitative Analysis, Data Modeling, Predictive Modeling, Deep Learning, NLP, Problem solving
Data Wrangling	Data generation, Data Extraction, ETL, Data Cleaning, Exploratory Data Analysis, Feature Engineering, Feature selection, Outlier detection, Hyperparameter tuning, Cross validation, Model evaluation and Data visualization

PROJECTS

- 🔗 **Intelligent Assistant for Task Management** - As a core contributor to an NGO Omdena - hosted open source project, leveraging NLP and LLM to schedule tasks using text or voice input, **reducing time spent by 40%**.
- 🔗 **Document Q&A Assistant** - Utilized NLP & LLM to generate document-based responses, improved document interaction by providing seamless access to information, **resulting in a 50% reduction in manual effort**.
- 🔗 **Movie Recommendation system – Approach used:** Data loading, Data Cleaning, Feature engineering, model building, vectorization, stemming, cosine similarity and built UI using streamlit.
- 🔗 **Real Estate House Price Prediction – Approach used:** Data loading, Data Cleaning, Feature engineering, Outlier detection and removal, model building, hyperparameter tuning, K-fold cross validation, writing flask server.
- 🔗 **Air Quality Monitoring and Forecasting in Indian Cities** - Analyzed air quality data from multiple Indian cities using ensemble learning for classification and prophet for time series forecasting.

CERTIFICATIONS

- 🔗 **Python & SQL** – Hackerrank
- 🔗 **Machine learning specialization** – Stanford University & Deeplearning.io (Supervised, Unsupervised machine learning and neural network)

BUSINESS EXPERIENCE

TATA CONSULTANCY SERVICES | Backend Developer - Java | May 2021 – Present

- 🔗 **Boosted system stability by 50%** with Java solutions incorporating efficient data structures and multithreading, reducing application crashes and enhancing user experience.
- 🔗 Achieved a **40% reduction in critical data processing runtime** through Java code optimization, utilizing advanced data structures, multithreading techniques, and exception handling.
- 🔗 **Enhanced code stability by 70%** through robust exception handling implementation effectively communicated technical concepts to diverse stakeholders.
- 🔗 Implemented testing procedures using JUnit and Mockito frameworks, **resulting in a 30% decrease in software bugs**, avoiding application crash and ensuring higher quality code delivery.

EDUCATION

- 🔗 **Bachelor of Engineering - Electronics and Instrumentation Engineering**
SRM Easwari Engineering College | 2017-2021 | **8.1 CGPA**