

# 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

<b>Programming Languages</b>	Python, SQL, Java, HTML, CSS
<b>Libraries &amp; Tools</b>	Pandas, Numpy, Matplotlib, Scikit-learn, Hugging face, PyPDF2, Pytorch, TensorFlow, Keras, NLTK, LLM, Langchain, OpenAI, Flask, BeautifulSoup, GIT, Github
<b>Associated Skills</b>	Regression, Clustering & Classification, LLM, Gen AI, Quantitative Analysis, Data Modeling, Predictive Modeling, Deep Learning, NLP, Problem solving
<b>Data Wrangling</b>	Data generation, Data Extraction, 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%
- 🔗 **The Conversational AI File Assistant** - Utilized NLP and LLM to generate document-based responses; improved document interaction by providing seamless access to information, resulting in a 50% reduction in time spent
- 🔗 **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**