

JOSHUA PAYAPULLI

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EDUCATION

University of Southern California

M.S. Applied Data Science

Completed classes: Principles of programming for Data Science, Machine Learning for Data Science.

Los Angeles, CA

Aug 2023 - May 2025

GPA: 4.0

The University of Manchester

B.S. (Hons) Computer Science

Degree classification/grade : First Class Honors

Relevant classes: Fundamentals of AI, Discrete Maths, Databases, Machine Learning and Optimization, Algorithms.

Extracurricular: PASS Leader - mentoring first year CompSci students, mainly with course material and interview preparation.

Manchester, United Kingdom

Sept 2018 - June 2021

EXPERIENCE

AND Digital

Leeds, United Kingdom

Associate Software Developer

Oct 2022 - July 2023

- Implemented a shared calendar event management system, enhancing resource efficiency. This led to a complete elimination of double booking incidents and an increase in meeting room utilization efficiency.
- Built a real-time office attendee tracking system, integrating Firebase's database with React Native. This enhancement provided instant updates on user presence, improving oversight and coordination for 100+ team members.
- Produced and presented data visualizations highlighting key engagement issues and optimization areas for the Leeds Asylum Seekers Support Network, using data from Google Analytics, leading to a 20% decrease in website bounce rates and a 40% increase in donation page user traffic, significantly boosting the charity's online visibility and outreach effectiveness.

PricewaterhouseCoopers (PwC)

Dubai, United Arab Emirates

Consultant (Contract)

Mar 2022 - July 2022

- Managed data for the Customer Protection Regulation (CPR) program at Emirates NBD, including regular data cleansing (duplicates, redundant data etc.) and restructuring to demonstrate 100% compliance to the Central Bank's regulations.
- Automated data extraction and visualization processes in Excel. Leading to a 40% increase in turnaround time for steering committee (SteerCo) reports, enhancing efficiency and timeliness of compliance communication.

First Abu Dhabi Bank

Dubai, United Arab Emirates

Business Analyst (Contract)

Aug 2021 - Feb 2022

- Led an initiative related to enhancing disclosure and transparency in product sign-ups, such as fixed deposit accounts
- Developed an accessibility framework for mobile and internet banking, improving user experience for individuals with diverse needs, such as color blindness, auditory challenges, motor skill difficulties, and cognitive disabilities.

Careys Plc

London, United Kingdom

Data Analyst Intern

June 2019 - Aug 2019

- Wrote Python scripts to create an ETL pipeline, integrating data from various APIs into an Azure data warehouse.
- Produced analytical reports using Power BI, leveraging real-time weather data for safety risk analysis at construction sites.

RECENT PROJECTS

- Utilized L1-penalized SVM, k-means, and spectral clustering on the Wisconsin Breast Cancer Data Set, achieving a 20% increase in model precision and recall via semi-supervised learning. Conducted 30 Monte-Carlo simulations to benchmark performance.
- Built a human activity recognition model using AReM dataset. Applied feature extraction, and L1-penalized logistic regression for binary classification. Achieved high multi-class accuracy with SMOTE for class imbalance.
- Analyzed 1000 of my chess games to identify key patterns and play styles to provide personalized improvement strategies.

TECHNICAL SKILLS

Python, JavaScript, React/React Native, SQL, Pandas, Matplotlib, Seaborn, SciKit-Learn, NumPy, Java, C, Keras, TensorFlow, AWS, Excel, Powerpoint, Word, Google Analytics, Power BI, Jira, Confluence.