SHLOKI JHA

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SUMMARY

Aspiring data science professional with a strong foundation in analytics, programming, and statistical modelling. Pursuing a MS in Data Science at the University of Michigan, I bring hands-on experience in machine learning, predictive modelling, and data visualisation, coupled with a demonstrated ability to communicate insights and drive solutions.

EDUCATION

University of Michigan MS Data Science

Relevant Coursework: Data Structures & Algorithm, Applied Machine Learning, Data Manipulation & Analysis, Statistical Inference, Information Retrieval (LLMs), Database Management Systems

Ann Arbor, MI Aug '23 - May' 25

Indian Institute of Technology BTech Civil Engineering

Relevant Coursework: Data Mining, Math for Data Science, Linear Algebra

Roorkee, India Jul '19 - Jul' 23

SKILLS

Programming Languages Database Technologies

Data Visualisation

Other Software/Tools Co-curriculars

Python, C++, MySQL, PostgreSQL, R, MATLAB

Java, MongoDB

Power BI, Tableau, Matplotlib, Seaborn

AWS Athena, AWS Sagemaker, TensorFlow, NLTK DOW Sustainability Fellowship (2024), Girl Up Now

RELATED EXPERIENCE

Rocket Mortgage

Data Science Intern

- · Developed predictive models for dial prioritisation of specialised leads, where the top deciles accurately captured most of the closings, improving baseline model performance and enhancing lead conversion.
- Built market share forecast models employing various statistical analysis techniques and experimented with different models like XGBoost, Decision Tree, SVM and Stacked tree regressors, contributing to more accurate business forecasts.
- Leveraged AWS Athena to efficiently extract, prepare, and build training data from scratch, streamlining the model development.
- Designed a sliding window dashboard in Power BI, delivering real-time insights to support business decisions.
- Presented key model findings to stakeholders, translating insights into actionable recommendations that drove strategic decisions.

University of Michigan - School of Information

Curriculum Development and Revision Aide (CDRA)

Oct '23 - May '24

May '24 - Aug '24

- Beta tested and helped enhance the Business SQL and Applied NLP courses in the Masters of Applied Data Science program.
- · Worked with instructors and curriculum developers to implement course revisions, enhancing the student learning experience.

MedTourEasy

Data Analyst Intern

Sep '22 - Oct '22

- Conducted data analysis using Excel and Python on 748 samples, visualising donor patterns and extracting actionable insights.
 Optimised predictive modelling using TPOT, improving AUC from 76% to 78.5% and streamlining model pipelines.
- Predicted blood donation trends through advanced feature engineering and TPOT-optimised models, uncovering patterns.

PROJECTS

Lyrics-Based Search Engine Software Development, Semantic Analysis, Deep Learning, Hugging Face

Developed a lyrics-based search engine combining statistical rankers (BM25, TF-IDF) and semantic models (Siamese BERT, LSA) to retrieve songs from partial lyrics. Evaluated on 50,000 song lyrics and 1,000 query-document pairs, Siamese BERT achieved the best performance (MAP: 0.4972, NDCG: 0.0704), improving MAP by 16.5% over the best baseline (TF-IDF: 0.4268).

Net Gains: Kicking Around Insights In Soccer Data Data Manipulation, Statistical Analysis, Modelling

Led analysis of 50,000 global soccer matches to identify key factors influencing team performance. Built predictive models with up to 89.5% accuracy for away scores and 83.2% for home scores using Random Forest. Created visualisations to assess team strengths, analyse league competitiveness, and provide strategic insights for analysts.

News Category Prediction Machine Learning, Natural Language Processing, Neural Networks

Implemented machine learning models for news category prediction using the MIND corpus (over 100k articles across 16 categories). Achieved 73% accuracy with Logistic Regression (TF-IDF), 72.4% with Neural Networks, and 72.5% with SVM. Built a sentiment analysis module using VADER and a content-based recommendation system with cosine similarity for personalisation.

Predicting Travel Mode Choice using ML Machine Learning, Python, Jupyter Notebook

Applied machine learning to analyse travel mode choice using the NHTS 2017 dataset (130k+ records), achieving 96.5% accuracy with Random Forest. Evaluated factors like income, fuel prices, and vehicle usage to support sustainable transportation planning.