POORVA PANDYA

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EDUCATION

National University of Singapore (NUS) **2020 – 2024**
Bachelor of Science (Data Science and Analytics) - Honours

- Relevant Coursework: Machine Learning, Natural Language Processing, Convex Optimization
- Undergraduate Research Assistant under NUS Institute of Analytics and Operations
- Senior Data Analyst under NUS Business Analytics Consulting Team

WORK EXPERIENCE

Data Analytics Intern, foodpanda, Singapore **Jan 2024 – Present**

- Utilized Google BigQuery for in-depth statistical analysis for identifying costly compliance breaches
- Proposed in-app feature enhancements to the product teams using with comprehensively represented data to mitigate app weaknesses and strengthen rider compliance
- Spearheaded stakeholder meetings to understand rider pain-points, translating insights into improvements minimizing trade-offs between customer and rider experience, and company profits.

Computer Vision Intern, Cynapse, Singapore **May 2023 – Aug 2023**

- Enhanced performance of I3D Action Recognition model on self-harm detection in prison cells by 8% (In collaboration with Singapore Prison Service)
- Improved a YoloV7 pose estimation model for smoking detection by improving the F1-Macro statistic by 13% (In Collaboration with One Raffles Quay)

Data Management Intern, KPMG, Singapore **Aug 2022 – Dec 2022**

- Deployed data pipelines for a cloud-based Data Warehouse and Data Lake on Microsoft Azure
- Executed Data Governance and Literacy processes involving approximately 90% of company employees to enhance Business and IT controls across the end-to-end data lifecycle by incorporating good practices on data quality and protection of highly confidential client data

PROJECTS

Implementing Neural Bayes Estimators **Oct 2023 – Apr 2024**

- Explored the implementation of Neural Bayes estimators for likelihood-free inference, focusing on the use of DeepSets framework in analyzing replicated data
- Investigated the use of CNNs and GNNs for both regular and irregular spatial data, analyzing the impact of network architecture and sample size variations on the root mean squared error (RMSE)

SCICITE: Citation Intent Classification **Feb 2023 – May 2023**

- Deployed end-to-end BERT (SciBert, Bert-Large, Bert-Base), and Attention + BiLSTM Models to carry out scientific document processing and sentiment analysis.
- Conducted feature engineering using GloVe and ELMO models to compare the advantages of pre-trained feature engineering methods
- Achieved a F1-Macro score of 85.6% using the AllenAI SciBert model, up from 67.9% in the original SciCite paper

Constructshare E-Commerce Simulation **Feb 2023 – May 2023**

- Implemented an Agent-Based Simulation model using the python-based Mesa library to predict consumer responses to new site features on Constructshare, an e-commerce startup
- Visualized agent interactions on the frontend using REST API, and utilized Docker to containerize the model

SKILLS

Technical Skills

- **Machine Learning:** Natural Language Processing, Computer Vision, Deep Neural Networks, TensorFlow, Pytorch
- **Data Analytics:** Statistical analysis, Data Visualisation, Database systems, NumPy, Pandas
- **Statistics:** Statistical modelling, Convex optimization, Bayesian Statistics
- **Programming Languages:** Python, R, SQL, Julia, Java (beginner)
- **Tools and Frameworks:** Google BigQuery, Docker, Git, Google Data Studio, Microsoft Azure, AWS, Hadoop, Apache Spark, Databricks