Divyesh Lad

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Recently graduated data scientist with 10 months of experience in collecting, interpreting, and analyzing large datasets. Knowledgeable in artificial intelligence, machine learning, and big data. A highly skilled communicator, with extensive technical knowledge to serve as a trusted and valuable consultant. Ability to collaborate with all levels of internal and external developers, and project stakeholders. Interested in model building that drives long-term business growth.

Experience

Research Assistant Data Analyst

University of South Australia - C3L - Adelaide, SA   MARCH 2020 – present

Working with the Centre for Change and Complexity Lab (C3L) under the Teaching and Innovation Unit at UniSA.

- Performed ETL and presented the results in the form of an **Excel** pivot table to understand the behavior of students.
- Leveraged data warehousing and visualizing capabilities in **Python** to compare and understand the influence of different factors on students' online engagement activity.
- Implemented linear mixed models (lmer) in **R** to estimate the student performance by controlling random factors of student id.
- Performed extensive post-hoc analysis to check the residual assumptions.
- Wrote python scripts to automate data merging & transformation, masking, and visualization processes.
- Built a new feature engineering approach to improve the model's overall predictive power.

Natural Language Processing Engineer

Creative Mantra   JUNE 2020 – present

Working on an online editing platform to provide an in-depth analysis of prose.

- Spearheaded the implementation of building features and creating automated reports to meet the demands of publishing professionals and discerning readers.
- Developed, evaluated, and maintained **NLP modules** that assisted authors in improving the manuscript by recommending cleaner dialogue, eliminating needless filler, keeping the reader engaged by fine-tuning pacing, and setting the emotional tone of the writing.
- Monitored and created test cases in a **Python** environment for different modules related to pacing, dialogue delivery, and word choice for validating data and resolving issues.

    Achievement: Decreased the rate of false positives in the traditional model by ~10% following robust data cleaning and wrangling procedures.

Data Visualization Consultant

City of Adelaide   NOV 2019 – DEC 2019

Worked with Adelaide council's business development department on the Smart CBD project.

- Delivered an interactive dashboard in **Power BI** for retailers to make informed decisions about the vacancy and occupancy rates of businesses in the city precinct.
- Optimized the existing design by performing rigorous data cleaning to highlight the major businesses at the precinct level.
- Integrated data from multiple data sources and maintained the integrity of the database.

  Achievement: Built a POC to identify the key relationship between revenue earned and the rent paid by the businesses which in-turn helped the council to support industries with lower income and startups.

Internships

Data Science Intern

ValAI - Adelaide, SA   APRIL 2020 – present

- Created automated scripts to deploy the model in the production environment and maintain data processing workflow.
- Implemented **PL-SQL** queries to pull data from the PostgreSQL database to a python environment.
- Collaborated with property valuators to perform feature selection and build AVM (Automated Valuation Model) to forecast the property prices in Adelaide.
- Built an end-to-end machine learning model using tree-based algorithms to increase the model explainability from 60% to 78%.

Research Data Analytics Intern

University of South Australia - C3L - Adelaide, SA   FEBRUARY 2020 – MARCH 2020

- Identify, analyze, and interpret patterns in complex datasets to provide on-going reports.
- Managed and integrated different data sources to resolve merge issues.

Capstone Program Intern

City of Adelaide   SEP 2019 – NOV 2019

- Contextualized and summarized different data governance policies and regulations on data privacy, data accessibility, data sharing, and data quality & assurance.
- Wrote scripts in **DAX & python editor** in **Power BI** environment to clean, transform, and analyze data.
- Gained exposure to data visualization tools and the operations in agile scrum methodology.

Research and Development Intern

Ecosmob Technologies – Ahmedabad   FEB 2018 – MACRH 2018

- Suggested supervised machine learning algorithms to optimize the internal workflow of the organization.

Skills

Technical Skills: Data Mining, Data Visualization, Machine learning, Artificial Intelligence, and Natural Language Processing

Programming Language: Python, R, SQL, Java, C, C++, Bash, and Scala

Tools & Frameworks: Apache Spark, Hadoop, Hive, Impala, Apache Pig, SAS Enterprise Miner / Studio, and Git

Certifications

- Certified in **MS-SQL Server** data administrator practices. (LinkedIn Learning - August 2020)
- Training in **Git** Essential – Basics. (LinkedIn Learning - June 2020)
- Acquired **Excel Data Analysis** skills. (LinkedIn Learning - Jan 2020)
- Knowledgeable in Deep Learning: **Image Recognition** (LinkedIn Learning - Oct 2019)
- Certification in **Improving Deep Neural Networks** (Coursera - August 2019)
- Certification in **Neural Network** (Coursera - July 2019)
- CCA **Spark and Hadoop Developer** (Cloudera - March 2017)

Education

University of South Australia

Master of Data Science (6.15 out of 7)   Graduated – 12/2019

- Top 10% percentile in class.
- Volunteered to work for a non–profit organization (Birthing Kit Foundation Australia) on a data migration project.

Parul University

Bachelor of Computer Science (6.3 out of 10)   Graduated – 05/2016