ADITYA PRAKASH SINGH [Data Analyst, Vancouver, Canada]   604-771-1425

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SUMMARY

Certified Power BI Data Analyst with 3+ years of experience in the digital construction industry with a statistical research background. Skilled in transforming business requirements into data models and actionable insights using Power BI, M queries, DAX, and complex SQL queries. Proven expertise in building end-to-end ML applications on AWS, backed by 150+ hours of specialization in Deep Learning and Generative AI. Open to relocation. **Canadian Citizen, eligible for TN Visa.**

RELEVANT WORK EXPERIENCE

Data Analyst (Strategic Insights) – *CadMakers Inc. (Consultant)* – Vancouver, Canada   06/2021 – 03/2024

- Managed data cleaning, analyzed large datasets from various sources, and designed data models for internal BI reporting, creating **Power BI Desktop/Service** dashboards, visualizations, and KPI scorecards
- Authored **SQL** queries for **ETL** (data extraction, data transformation, data cleaning) processes across 700 projects
- Authored **M queries** and optimized **DAX** calculations, reducing data refresh times by 40% in Power BI reports
- Identified database cost inefficiencies via data analysis and altered database syncing schedule, reducing costs by 63%
- Automated data workflows and streamlined data integration using **Excel, Python** scripts for client deliverables
- Created pull requests as part of **CI/CD** pipeline version control **(git, Azure DevOps, SourceTree)** for cloud workflows

AEC Integration Engineer – *CadMakers Inc.* – Vancouver, Canada   09/2019 – 05/2021

- Collaborated on cross-functional teams on 7+ large AEC projects: automation, process improvement, 3D models

Graduate Research Assistant – Clean Energy Research Centre, UBC – Vancouver, Canada   09/2015 – 09/2018

- Conducted research on clean tech system for industry client using statistics: hypothesis, DOE, and data analysis

PROJECTS

ML/Data Engineer, FinRAGify – *GitHub* – Vancouver, Canada   04/2024 – 09/2024

- Developed **RAG** chatbot for stock investors to ask key questions ('latest product launches?') in natural language from earnings transcripts using **LangChain, Facebook AI Similarity Search (FAISS) vector database,** and **GPT-4o LLM**
- Engineered data system; selective retrieval of 2% of 65k+ word transcript for generation, saving API costs
- Achieved 85% retrieval accuracy via fine-tuning prompts, integrating **Hugging Face** model as custom reranking layer
- Dockerized and deployed app on **AWS**: http://ec2-40-177-46-181.ca-west-1.compute.amazonaws.com:8501/

Data Scientist, CrowdfundProphet – *GitHub* – Vancouver, Canada   10/2023 – 03/2024

- Engineered a predictive model for crowdfunding success to achieve 80% accuracy; deployed prototype app to **AWS**
- Conducted data cleaning, data manipulation, and data analysis on 24k+ SEC filings, employing feature engineering (RFE) to downsize model by 62%; data visualization in **Python**, Tableau
- Tuned and weighted ML algorithms **(sklearn, XGBoost)** to create a robust meta-model

SKILLS

Programming Languages & Libraries: Python | MS SQL | DAX | pandas | NumPy | scikit-learn | LangChain | PyTorch
Data Engineering & Modeling: Data Cleaning | Data Transformation | ETL | Docker | Git| AWS
Data Science: Exploratory Data Analysis | Experimental Design | Hypothesis Testing | NLP | CNN | Generative AI | LLM

EDUCATION

MASc in Mechanical Engineering (Experimental Statistics) – *The University of British Columbia* – Canada   12/2018
Bachelor of Technology in Aerospace Engineering – *Indian Institute of Technology Bombay* – India   08/2015