Data Scientist

ADITYA SINGH

singh.aditya@alumni.ubc.ca
https://apsinghanalytics.github.io/
https://www.linkedin.com/in/apsinghAnalytics/
Vancouver, Canada

Skills

- **Languages**: Python 3, SQL, DAX, HTML
- **Libraries:** scikit-learn, Streamlit, XGBoost, TensorFlow, OpenAI, LangChain
- **Systems**: AWS, Linux, Git
- **Tools:** Power BI (Certified Power BI Data Analyst), Excel, Tableau, Jupyter
- **Domains:** Classification, Computer vision, CNN, NLP, LLM, Hyperparameter Optimization, Time-series, Regression, Web Apps

Data Science Projects

CROWDFUNDPROPHET APP: CROWDFUNDING PREDICTION APP – Personal Project – Vancouver, BC   Jan 2024

- Developed a Python-based data extraction tool to scrape over 24k+ Form C filings from the SEC's website, resulting in a high-quality curated dataset of 7k+ unique campaigns.
- Engineered a stacked machine learning binary classifier to predict crowdfunding success with 80% accuracy.
- Deployed a Streamlit app, leveraging the stacked classifier to assist businesses in optimizing crowdfunding campaigns, via data driven insights on timing, duration, financial metrics, etc. http://ec2-40-176-10-24.ca-west-1.compute.amazonaws.com:8502/
- Constructed a Tableau Dashboard to illustrate trends in crowdfunding activities, shared publicly on Tableau

VENTUREGEN APP: STARTUP NAME AND PITCH GENERATOR – Personal Project – Vancouver, BC   Dec 2023

- Utilized GPT-3.5 Turbo LLM technology to enable users to brainstorm cross-industry innovation by generating 200-word pitches and merging up to 3 industries from a choice of 100+ selections.
- Developed an LLM based web application using Streamlit, LangChain, and OpenAI's GPT-3.5 Turbo, deployed on AWS.
  http://ec2-40-176-10-24.ca-west-1.compute.amazonaws.com:8501

FASHION MNIST CNN IMAGE CLASSIFIER – Personal Projects – Vancouver, BC   Nov 2023

- Developed a TensorFlow CNN model for Fashion MNIST with a multi-layer architecture, resulting in 85% accuracy.

MISC ANALYTICS AND VISUALIZATION PROJECTS – Personal Projects – Vancouver, BC   Nov 2023

- Demonstrated proficiency in data visualization and analysis across 7 projects using Python, Power BI, Jupyter, and Tableau, focusing on financial market timing (early bull market detection), sector cyclical analysis, Myers-Briggs based HR analytics, cryptocurrency sentiment and time-series analysis, and macro-economic and Google trend-based recession indicators.

Work Experience

STRATEGIC INSIGHTS LEAD – CadMakers – Burnaby, BC   Jun 2021 – Present
AEC INTEGRATION ENGINEER   Sep 2019 – Jun 2021

- Led the evaluation of Enterprise Resource Scheduling (ERP) systems including Microsoft Dynamics 365, Oracle NetSuite, and Sage Intacct, coordinating cross-functional teams to assess suitability and align with business needs.
- Utilized SQL for ETL processes in the background and developed Power BI dashboards for real-time monitoring of project and department KPIs, resource scheduling, and cost metrics analysis.
- Liaised with software development and services teams for feature implementation.

GRADUATE RESEARCH ASSISTANT – Clean Energy Research Centre – Vancouver, BC   September 2015 - September 2018

- Identified optimum regions of engine operation via experimental testing, data analysis in MATLAB, and statistical modeling (response surfaces, ANOVA, RMSE) and sensitivity analysis of 150+ engine operating points, each with 40+ relevant parameters.

Education

MASTER OF APPLIED SCIENCE – The University of British Columbia – Vancouver, BC   Dec 2018
Major: Mechanical Engineering, Clean Energy   Other Courses: Statistical Modeling and Analysis, Project Management

BACHELOR OF TECHNOLOGY – Indian Institute of Technology Bombay – Mumbai, India   Aug 2015
Major: Aerospace Engineering   Other Courses: Computational Simulations, Linear Algebra, Economics