

ADITYA PRAKASH SINGH [Data Analyst, Vancouver, BC]

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MS Certified Power BI Data Analyst seeking a new challenge as a Data Scientist with 2.5+ years of experience in data analytics, Power BI, SQL, and Python workflows for structured and unstructured data. Developed and cloud-deployed predictive ensemble machine learning models, openly sharing them on GitHub. Strong foundation in mathematics from a Bachelor's in Aerospace Engineering.

Relevant Work Experience

Data Analyst / Digital Fabrication Specialist – CadMakers – Burnaby, CA June 2021 - March 2024

- Developed interactive dashboards using **Power BI** Desktop and connected to on-premises SQL Server via Gateway for automated daily refreshes, improving dashboard usage from 20% to 85% and reducing manual data handling
- Developed SQL queries for ETL processes (Views, JOINS), to clean and organize data for end-user Power BI reporting
- Authored Power BI tutorials on internal wiki to empower troubleshooting and reduce support requests by 30%
- Distilled complex business results into simple, clear Power BI visualizations and delivered presentations, driving strategic planning
- Collaborated with software and service teams to optimize data processes and ensure quality control

AEC Integration Engineer – CadMakers – Burnaby, CA Sep 2019 - June 2021

- Collaborated on 7+ large AEC (Architectural, Engineering, and Construction) projects in teams of 3+ cross-functional teammates, resolving design challenges and sharing expertise through daily chats and weekly meetings

R&D Analyst Intern – Hydra Energy – Delta, CA Sep 2018 - May 2019

- Drove \$500k revenue potential by identifying unburned Hydrogen in truck exhaust through hypotheses, experiments in **Python**

Graduate Research Assistant – The University of British Columbia – Vancouver, CA Sep 2015 - Sep 2018

- Led systems analysis of novel prototype, enabling data-driven decisions to reduce environmental emissions by industry sponsors
- Designed 150+ experiments, performed statistical analysis (**multi-linear regression, ANOVA**) on 1M+ rows in MATLAB, **Python**

GitHub Data Projects

CrowdFundProphet App: Crowdfunding Prediction App [End-to-end ML, Predictive Ensemble Modeling, scikit-learn]

- Scraped 24k+ SEC Form C filings, curated 7k+ unique campaigns and visualized using anomaly detection in **Python**, [Tableau](#)
- Boosted model efficiency by reducing features from 27 to 10 using Recursive Feature Elimination, maintaining accuracy
- Evaluated 20 **machine learning algorithms** for cross-validation performance, overfitting, and low mutual correlation
- Achieved 80% crowdfunding accuracy via handpicked tuned stacked classifier (**AdaBoost, ExtraTrees, RandomForest, XGBoost**)
- Optimized crowdfunding via business insights on timing, financial metrics, etc. by deploying predictive [Streamlit app on AWS](#)

VentureGen App: A Startup Name and Pitch Generator [LangChain, GPT-3.5 LLM, Generative AI, OpenAI API, Python]

- Generated 200-word elevator pitches over 3 industries with 100+ options - [AWS-deployed web app](#) (**GPT-3.5 LLM, LangChain**)

Fashion CNN Image Classifier [TensorFlow, Keras, Deep Learning, Convolutional Neural Network]

- Classified 70k apparel images with 85% accuracy using a multi-layer **TensorFlow CNN** model

Autonomous Early Bull Market Trends Detection [Financial Analysis, Time Series Analysis, Data Analysis]

- Designed Python, Power BI system for S&P500 data, achieved autonomous early-bull market detection in 4 out of 5 bear markets

Education

The University of British Columbia, Vancouver, CA – Master of Applied Science GPA: 3.9/4.0 Dec 2018
Major: Mechanical Engineering Courses: Probability and Statistics

Indian Institute of Technology Bombay, Mumbai, IN – Bachelor of Technology CGPA: 8.5/10 Aug 2015
Major: Aerospace Engineering Courses: Linear Algebra, Calculus, Probability and Statistics

Skills

- **Certifications:** MS Certified Power BI Data Analyst Associate (PL-300), IBM Generative AI for Data Scientist Specialization
- **Languages & Libraries:** Python, SQL (SQL Server), pandas, numpy, scikit-learn, XGBoost, TensorFlow (Keras), PyTorch
- **Miscellaneous:** Predictive Modeling, Convolutional Neural Networks (CNN), NLP, Hypothesis Testing, LLM, Git, AWS EC2