SATYAM VATTS

GET IN TOUCH

✉ satyamvatts2@gmail.com
in https://www.linkedin.com/in/satyamvatts/
⌨ https://github.com/satyam-vatts
(www) https://satyam-vatts.github.io
📞 +1 (778)-323-9559

TECHNICAL SKILLS

Languages: Python, R, SQL/T-SQL
- **Py Libraries**: tensorflow, scikit-learn, nltk, pandas, numpy
- **R Libraries**: tidyverse, dplyr, vgam, cluster, factoextra, ggplot, seaborn

Supervised ML: Linear/Logistic Regression, Naive Bayes, Decision Tree, Random Forest, KNN, XGBoost

Unsupervised ML: K-Means, K-Medoids, DBSCAN, Hierarchical Clustering

Deep Learning: CNN, ANN

Statistics: Gradient Descent, Hypothesis Testing, Correlation, LDA, Correspondence & Factor Analysis, PCA

Visualization: Power BI, Tableau, Excel

Cloud: Azure ML, AWS EC2, Lambda, S3

DevOps: REST API, Bash, Chef, Django, gRPC, Jenkins

Databases: Oracle, MSSQL, Sybase, PostgreSQL

EDUCATION

Langara College, Vancouver
Jan 2021 – May 2022
POST-DEGREE DIPLOMA IN DATA ANALYTICS
- Graduated with Distinction
- Awarded Dean's Honor Roll
- CGPA: 4.09/4.33

Guru Gobind Singh Indraprastha University, New Delhi
Jul 2013 – May 2017
B.TECH IN ELECTRONICS & COMMUNICATION ENGINEERING
- CGPA: 3.29/4.0 | Percentage: 82.28%

CERTIFICATIONS

Microsoft Azure Fundamentals (AZ900)

PROFESSIONAL CAREER EXPERIENCE

Data Engineer & DevOps Engineer
FREELANCE: SELF-EMPLOYED | JAN 2021-PRESENT
- Developed **data quality check** utility in **python** using **pandas** to **automate** row-level data validation saving hours of effort.
- Developed **RESTful API** clients connecting to different services such as **Slack**, **Data Dog**, **Devo**, **Splunk**, **AWS** etc. using **Python** to acquire and report **resource utilization** of endpoints preventing unnecessary usage
- Developed Infrastructure-as-a-Code for standardized software provisioning by refactoring bash scripts as Progress Chef cookbooks for Database Server installations on AWS, Azure & GCP instances

Teaching Assistant
LANGARA COLLEGE | SEP 2021 - PRESENT
- Assisted in **refining course** structure, preparing **assignments**, and providing students with **practice datasets & in-class activties** for 2 data analytics courses

Senior Systems Engineer
INFOSYS LIMITED, INDIA | OCT 2017 - DEC 2020
PROFILE: DATA ENGINEER | CLIENTS: BLACKROCK, SUNTRUST
- Developed an **end-to-end data pipeline** using **python** for **Index data** by acquiring vendor data from **APIs**, performing **ETL** operations based on user stories and **fanned out** data to more than 100 client servers
- Developed enhancements for **data QC pipeline** on **python** for implementing business rules on index funds data.
- Optimized inter-application communication protocol by implementing **RPC server** in **python** for accessing **databases** to **secure DB** from direct DB transactions and **invalid SQL injections**
- Developed **automation** & utility tools for monitoring, logging and visualization of **ETL Jobs** using **python**, **bash** scripts & **Excel VBA Macros** saving hours of manual effort
- Enhanced existing **Index Funds Data Loading Engine** for **ingesting** data from vendors to internal **data warehouse** by refactoring perl scripts to python **standardizing & optimizing** the dataflow
- Mentored team-mates by developing **descriptive documentation** of products **architecture,** providing **code walkthroughs,** and engaging employees in **brainstorming** sessions on critical issues

PROJECT EXPERIENCE

Employee Performance Dashboard   🐙 github
Developed 5 **Power BI** reports for monitoring **employee performance** by implementing **ETL data pipeline** using **Power Automate, Python** & **Postgres** to help management define targets & evaluate performance

ML Model Development & Deployment   🐙 github
Implemented ML models for **Image Classification** & **Language Detection** on **Azure Machine Learning Studio** by developing pipelines in **ML Designer**, Configuring **Automated ML** and using **Azure ML SDK** to deliver a detailed cloud ML model deployment **guide for students** at Langara College