

Shivraj Patil

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EDUCATION

Master of Engineering in Information Systems Security
Concordia University, Montreal

Sept 2022–Apr 2024

Bachelor of Technology, Computer Science and Engineering
MIT World Peace University, Pune, India

Jul 2018-May 2022

SKILLS

Programming: Python, Java, C++, C, SAS, R

Machine Learning: Scikit-Learn, TensorFlow, Pandas, NumPy, Pytorch

Web: HTML, CSS, JavaScript

Cloud Technologies: AWS, Azure, GCP

Data Analytics & Visualization: Power BI, Tableau, Looker, Excel, DAX, Power Apps, Adobe Analytics, VBA, BigQuery, Snowflake

Data Engineering: AWS Redshift, MongoDB, SQL Server, Hadoop, Spark, Databricks, Azure Data Factory, AWS Lambda, Apache Kafka

ETL & Data Integration: SSIS, Alteryx, Talend, Apache Nifi, Informatica, Data Pipelines

Automation & Job Scheduling: Control-M, Apache Airflow, Power Automate, Jenkins, GitHub Actions, Ansible, Terraform

Version Control & Collaboration: Git, GitHub, Confluence, Jira

WORK EXPERIENCE

Data Analyst, Intact Financial Corporation, Toronto, Ontario, Canada

May 2024-Sep 2024

- Led the analysis of **operational performance** using **Python, SAS, and SQL**, uncovering insights that improved **key performance indicators (KPIs)** by up to **20%** across **Personal and Commercial Lines**.
- Developed and maintained **Power BI dashboards** for **workforce management**, enabling resource tracking, capacity planning, and performance monitoring, improving team **efficiency** by **25%** and reducing **scheduling conflicts** by **30%**.
- Created complex **DAX expressions** for advanced analytics and visualizations in **Power BI**, improving **trend analysis** by **25%**.
- Automated **SAS processes** with **Control-M** and **KSH scripts**, boosting efficiency by **40%** and cutting errors by **15%**.
- Maintained **version control** with **GitHub**, ensuring collaboration and code integrity across data projects.

Security Analytics Intern, Intact Financial Corporation, Toronto, Ontario, Canada

May 2023-Apr 2024

- Developed **Power BI dashboards** to **visualize** security data trends and key metrics, improving **incident response time** by 15% and enabling **data-driven decision-making** for the security team.
- Conducted large-scale **data analysis** using **SQL** and **ElasticSearch**, identifying key trends and optimizing **cloud security**, resulting in a **20% improvement** in security measures.
- Implemented **Row-Level Security (RLS)** in **Power BI**, ensuring **role-specific data access** and reducing **access-related issues** by **30%**, ensuring **compliance** with **security and privacy standards**.
- Enhanced **reporting efficiency** by **25%** through advanced **Excel formulas (VLOOKUP, INDEX-MATCH, arrays)** and **VBA macros**, **automating data analysis** and identifying **data quality gaps** from **CSPM, WAF, and CASB** tools.

Business Intelligence Developer Intern, Paytm, Pune, India

Jan 2022-Jul 2022

- Led the analysis of **customer analytics**, retrieving and analyzing **customer data** (demographics, purchase patterns, churn rates) from **GCP BigQuery** using **Python** and **SQL**, driving a **15% increase** in **customer engagement** through **targeted marketing strategies**.
- Developed **dashboards** in **Tableau**, visualizing key **customer metrics**, and saving **30 hours** of **manual analysis** per month, leading to improved **decision-making** for **marketing** and **product** teams.
- Developed and maintained comprehensive **documentation** on **Confluence**, and managed tasks on **Jira**, ensuring smooth collaboration and **progress tracking** for cross-functional teams.

Data Science Intern, AlgoAnalytics, Pune, India

May 2021-Dec 2021

- Led **data architecture** and flow for petabyte-scale project using **Spark, Databricks, AWS S3, Lambda, and SQS**, boosting efficiency.
- Automated **S3 archiving**, cut **storage costs** by **95%**, and optimized **revenue** with **compression/migration** solutions.
- Created **Azure Databricks** validation for **10+ pipelines**, cutting issue detection time by **70%** and saving **30 hours/week**.
- Built **monitoring dashboards** in **Snowflake** and **Tableau**, improving real-time and historical data analysis.
- Optimized **SQL queries** to cut database **query execution time** from 150 to 80 minutes and reduce **pipeline latency**.

ETL Developer Intern, Canspirit AI, Pune, India

Jan 2021-Apr 2021

- Orchestrated **ETL/ELT** for healthcare, integrating 1,000+ files weekly into a **SQL warehouse** to enhance data accessibility.
- Implemented **data transformation** in **IBM DataStage**, improving process **efficiency** and data accuracy by 95%.
- Conducted **integration testing**, resolving 100+ issues and enhancing data solution reliability pre-deployment.

PROJECTS

YouTube Data Analysis | Tech Stack: Python, Hadoop, Apache Spark, Mongo DB, Cassandra, HTML, JavaScript, Power BI

- The main objective of this project is to focus on how **data generated** from **YouTube** can be **mined** and **utilized** by different **companies** to make targeted, real- time, and informed **decisions** about their product that can **increase** their **market share**.

Credit Card Fraud Detection and Analysis | Tech Stack: Python, Scikit-Learn, Pandas, NumPy, Seaborn

- Built a classifier to predict if a **transaction is a fraud or not** based on certain factors.
- Achieved an **accuracy** of **99.99%** for the **Random Forest Classifier**.
- Implemented **data poisoning attack** against a **Support Vector Machine (SVM)** with **Radial Basis Function (RBF) Kernel**.