

Shivraj Patil

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EDUCATION

Master of Engineering in Information Systems Security
Concordia University, Montreal, Canada

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, SAS, R

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

Web: HTML, CSS, JavaScript

Cloud Technologies: AWS, Azure, GCP

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

Data Engineering & ETL: SQL Server, AWS Redshift, Hadoop, Spark, Databricks, MongoDB, Azure Data Factory, AWS Lambda, Alteryx

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

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 and optimized **Power BI dashboards** to transform raw data into actionable insights, leveraging **DAX measures** and **Power Query** to enhance data modeling and visualization, reducing **reporting latency** by **15%**.
- Implemented **Row-Level Security (RLS)** in **Power BI**, ensuring **role-specific data access** and reducing **access-related issues** by **30%**, ensuring **compliance** with **data governance standards**.
- Conducted **large-scale data analysis** using **SQL**, identifying key trends and optimizing **data workflows**, leading to a **20%** improvement in **data processing efficiency**.
- 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 Engineer 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

HR Workforce Analysis | Tech Stack: Power BI, Microsoft Excel, Power Query, DAX, SharePoint

- Designed and developed an interactive **Power BI dashboard**, **enhancing HR decision-making** by **30%** through **real-time** visualization of attrition trends, salary distribution, job roles, and workforce demographics.
- Analyzed **workforce patterns** to identify **attrition trends**, improving data-driven insights by **25%** for **HR policy optimization**.

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

- Developed a **machine learning model** to detect **fraudulent credit card transactions** with **99.999%** accuracy using Random Forest.
- Created interactive visualizations and reports to analyze **fraud patterns** and **model performance**, enhancing decision-making.
- Evaluated model robustness by applying a data poisoning attack on the **SVM classifier**, analyzing its impact on accuracy.