

Shravan Agnihotri

shrav.agnihotri@gmail.com | linkedin.com/in/shravan-agnihotri | 437-988-7534 | github.com/Shravan-9 | shrav.ca

EDUCATION

Queen's University

Bachelor's Degree (Honours) in Computing, Major in Artificial Intelligence, Minor in Statistics

Kingston, ON

GPA: 3.8/4.3

WORK EXPERIENCE

Data Science Intern | Manulife

Apr 2025 - Aug 2025

- Built and deployed **fraud detection model** for dental claims, flagging over **\$30 000 000 in potential violations**, and worked with the **Canadian AI Team** to deliver insights and data driven projects **used by 50+ stakeholders**.
- Led **feature engineering** and **large-scale data exploration** EHC Pooling Project, identifying **high-profit** companies and analyzing fund distribution, pioneering a model which will guide **25+ finance stakeholders**.
- Designed an **end-to-end anomaly detection pipeline** for narcotics claims data using an **unsupervised random isolation forest** algorithm to generate **1000+ outlier leads** using **SHAP values** for interpretability and **feature importance**.

Full Stack Developer | Tricode

Apr 2025 - Aug 2025

- Contributed to **frontend and backend** systems for TriHire, used by **500+ students** building modular production-ready features using **database migrations, API integrations and CI/CD pipelines** improving deployment reliability by **22%**.
- Enhanced TriHire's **scalability** and **optimized React/Node.js features** ensuring **successful usage for 1000+ students**.

Data Analyst Intern | Sun Life

May 2024 - Dec 2024

- Played a vital role in an **AWS conversion** project, transitioning over **15 products** from **SQL Server to AWS** data sources, enhancing **cloud computing proficiency** and streamlining **data workflows**.
- Worked in the **Canada Reporting COE Team**, to develop **detailed data source documentation**, successfully replaced **100% of legacy data sources in Tableau**, and **resolved all** reference and inconsistency issues ensuring data reliability.
- Reduced 20% data discrepancies** by conducting **rigorous data validation** and testing to ensure data verification across **20+ reports** and creating new data sources using **Tableau Prep** inclusive of hierarchies stored on **AWS**.

EXTRA CURRICULAR EXPERIENCE

Academics Chair and Orientation Leader | Queen's School of Computing

Sep 2024 - Present

- Directed **academic programming** and events, including the **Computing Showcase, impacting over 500 incoming students** and collaborating with **20+ faculty, clubs, and professors**.
- Planned and executed **large-scale orientation logistics** training **100+ student leaders**, shaping Queen's culture and serving as role model. Drove **\$50 000 + in ticket sales** to fund events, equipment, supplies and bookings for Queen's University.

Software Developer | QHacks Hackathon

February 2024

- Developed a dynamic web application which provided clients with real time interview feedback through the use of **natural language processing (NLP) techniques**.
- Crafted and designed **front end interface using figma** and ensured an intuitive and captivating experience through the use of HTML, Javascript and CSS. Engineered **Python scripts** using the **Flask framework** for **backend functionality**.

PROJECTS

NBA Player Comparison Generator | Python, Flask, Pandas, NumPy, Scikit-learn, Seaborn, Matplotlib

Present

- Extracted and cleaned over **2,000 rows of NBA player data** using **BeautifulSoup** and **NumPy**, calculating **advanced metrics** such as efficiency ratings, usage rate, and player tendencies to ensure accurate analysis.
- Trained and optimized **predictive machine learning models** using **KNN** and **Random Forest Classifier** in **Scikit-learn**, achieving **92.4% accuracy** in generating NBA player comparisons based on user-defined parameters.
- Integrated **Principal Component Analysis (PCA)** for dimensionality reduction and leveraged **Flask** with **Seaborn** to create an interactive web interface, delivering clear visualizations of advanced player tendencies.

TECHNICAL SKILLS

- Languages and Data:** Python, SQL, R, Java, JavaScript, C, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, SHAP
- Cloud & Big Data:** PySpark, Azure Databricks, AWS (S3, RDS, Glue), ETL, PCA, CI/CD, Git
- Web Development & Visualization:** Flask, Node.js, Express, React, Next.js, Tailwind CSS, Tableau, PowerBI

CERTIFICATIONS

- Python for Data Science and Machine Learning, Udemy Present
- AWS Certified Cloud Practitioner, Udemy July 2024
- The Complete Python Pro Bootcamp for 2023, Udemy Sep 2023