Shourav Rakshit Ivan

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Education

University of Calgary   Canada, Calgary
Computer Science   **Expected Dec 2025**
- GPA: 3.6 / 4.0
- Relevant Courses: DBMS, Web-Based Systems, Software Project Management, LLM, Natural Language Processing

Technical Skills

Languages: Python, Java, HTML, CSS, Javascript, MySQL, PostgreSQL, VBA, Microsoft SQL Server
Frameworks: React, Next.js Django, Flask, Express.js, LangChain, TensorFlow, PyTorch, Hugging Face, OpenCV
Developer Tools: VS Code, PyCharm, Docker, Power BI, Tableau, Heroku, Microsoft Azure, JIRA, Figma,
Others: Linux, D2L, Office, Excel, PowerPoint, SharePoint, Teams, Access

Experience

SynergyLoft   June 2025 – Present
AI Software Developer   Canada, Calgary
- Built end-to-end AI-powered Accounts Payable automation system processing 4,121+ contractor PDFs with **PyMuPDF** and custom NLP pipelines, reducing manual document processing time by 80% with real-time classification in under 2 seconds.
- Fine-tuned **LayoutLMv3** model using HuggingFace Transformers on 1,396 manually labeled pages (invoices, timesheets, approvals), achieving 100% test accuracy using confidence-based thresholds (0.85 high-confidence, 0.60 manual review).
- Engineered **MongoDB** infrastructure for distributed document storage across multiple clients, implementing **ETL** pipelines with automated metadata extraction and GDPR/PIPEDA-compliant audit logging tracked via **Power BI** dashboards.
- Deployed containerized microservices using **Docker** on Azure, integrating **Microsoft Graph API** for automated email triage and enabling hourly batch processing workflows for production-scale document classification.
- Maintained comprehensive project documentation in **Confluence**, managed sprint backlogs in **JIRA**, and developed 100+ **pytest** unit test cases ensuring code quality and system reliability across all microservices.

Neuraura   July 2024 – 2025 April
Data Analyst   Canada, Calgary
- Built **ETL** pipelines to automate data aggregation from 5+ sources, reducing manual data collection time by 50%
- Optimized **MySQL** database queries by implementing indexing strategies, improving query performance by 30%.

Projects

[JobHunter](#): (Automated Job Scraper)   Jan 2025 – Present
Data Scientist / Full Stack Developer   Canada, Calgary
- Developed a full-stack job application using **Django REST Framework**, React, and web scraping (Selenium, BeautifulSoup) to extract data from 50+ job portals, reducing search time by 70% and storing 10,000+ records in **MongoDB**.
- Applied NLP techniques (NER, keyword extraction, topic modeling) to clean and categorize 100% of job postings, improving search relevance by 40%, and implemented LLM-powered features such as semantic search and job description summarization using models like **LLaMA and DeepSeek**.

  Tools/Technologies: Python, Django REST Framework, React, MongoDB, Power BI, Docker, Selenium, BeautifulSoup, NLTK, LLaMA, DeepSeek, Azure Databricks, PythonAnywhere, SQL, Tailwind CSS

[Telecom Customer Churn Prediction](#)   Nov 2024 – 2024 Dec
Data Scientist   Canada, Calgary
- Designed a Flask-based app for predicting trends (94% accuracy) with techniques like **SMOTEENN** to enhance data quality.
- Developed and tuned machine learning models using **scikit-learn**, visualizing churn drivers in **Power BI** dashboards.
  Tools/Technologies: Python, Pandas, NumPy, scikit-learn, Flask, SMOTE, HTML, CSS, Power BI, Selenium

[Real Estate Price Prediction Website](#)   Oct 2024 – 2024 Dec
Data Scientist   Canada, Calgary
- Developed machine learning models (**Linear Regression, Random Forest, XGBoost**) to predict Canadian real estate prices (80% accuracy), using feature selection, correlation analysis, and variance inflation factors (VIF) to refine predictions.
- Conducted extensive feature engineering to ensure datasets adhered to project standards and compliance requirements.
  Tools/Technologies: Python, Pandas, Numpy, Scikit-learn, Flask, AWS EC2, HTML, CSS, JavaScript.