

Shourav Rakshit Ivan

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AI Software Developer | Software Engineer | Computer Science Graduate

Education

University of Calgary

Canada, Calgary

Bachelor of Science (BSc) in Computer Science

Sep 2020 – 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, OpenCV

Developer Tools: Docker, Power BI, Tableau, Heroku, Microsoft Azure, JIRA, Figma, Confluence, Hugging Face

Others: Linux, D2L, Office, Excel, PowerPoint, SharePoint, Teams, Access, OneDrive

Experience

SynergyLoft

June 2025 – Present

AI Software Developer

Canada, Calgary

- Designed and developed an end-to-end **Accounts Payable financial data** automation system, processing **7,000+** invoices, timesheets, and approval records to support accurate financial analysis, reporting, and operational decision-making, using HuggingFace **LayoutLMv3** and **Longformer** models with confidence-based thresholds (**95%** automated, **70%** manual review).
- Implemented multi stage document classification using **LayoutLMv3** and **Longformer** models achieving **97 percent** and **98 percent** accuracy respectively, enabling page level separation of mixed documents containing invoices, timesheets, and approvals prior to metadata extraction.
- Developed robust document ingestion and preprocessing pipelines using **PyMuPDF**, **pdfplumber**, **openpyxl**, python docx, and **Tesseract OCR**, with **magic byte** based true file type detection and automated deduplication to accurately normalize and filter PDFs, spreadsheets, Word files, and scanned documents.
- Built metadata extraction pipelines using **LayoutLMv3**, achieving **90 percent** accuracy on full field extraction and **96 percent** accuracy on critical financial fields for invoices and timesheets.
- Maintained comprehensive project documentation in **Confluence**, managed sprint backlogs in **JIRA**, and developed **200+** **pytest** unit test cases ensuring code quality and system reliability across all microservices.

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.