

Ojasv Issar

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Summary

Data Scientist & AI/ML Engineer with 4+ years of experience shipping production ML, currently building the **AI models** behind Vintality's precision-viticulture platform; MDS, UBC (4.00/4.00 GPA). End-to-end across **LLM & RAG systems**, NLP, computer vision and scalable data pipelines, from prototype to **deployed endpoint on AWS**: every model ships, every pipeline scales.

Professional Experience

Vintality: Tech + Terroir

Apr. 2026 – Present

Data Scientist (Contract, Full-time)

British Columbia, Canada (Remote)

- Building the **AI models** behind Vintality's grower-facing dashboard, turning raw vineyard measurements into **decision-ready intelligence** for commercial wineries
- Own **geospatial ML** end to end, from feature engineering on NDVI vigour, electrical-conductivity soil maps and terroir data to training, evaluation and served endpoints

Independent Consultant (Freelance)

May 2022 – Apr. 2026

Data Scientist

Remote

- Delivered **end-to-end ML systems** for 30+ clients, including EdTech platforms [Escalera Technologies](#) and [TechLearniversity](#), spanning **deep learning**, **computer vision**, **NLP** and **RAG pipelines**
- Fine-tuned [XLM-RoBERTa-large](#) on 15K+ web-scraped Arabic reviews for multilingual sentiment, **beating the client's in-house F1 baseline**; shipped a **production inference pipeline**
- Engineered **CNN/YOLO** and **transformer NLP models** improving accuracy by up to **30%**; built **ETL pipelines** with **Airflow**, **Kafka** and **PySpark** on **Snowflake**, **PostgreSQL** and **Neo4j**, with **Tableau/Power BI** dashboards

Spartan Poker

Jan. 2024 – Jun. 2024

Data Analyst Intern

Gurugram, India

- Designed the company's first **game-theoretic payout model** (50K+ players); built **churn models** cutting attrition up to **30%** and **fraud pipelines** improving detection **60%** over rule-based systems
- Led the **Snowflake** warehouse migration and **QuickSight** BI rollout, cutting **query latency by 60%**

Key Projects

Grounded AI for Road Maintenance (*PavePal, UBC MDS Capstone*) | Python, RAG, LLMs, embeddings

Apr. – Jun. 2026

- Built a **RAG system** grounding road-maintenance decisions in **pavement surveys** and **DOT guidelines**; evaluated **retrieval quality** and catalogued **failure modes** before deployment
- Found a **vocabulary gap** general embeddings could not bridge ("alligator cracks" vs. "fatigue cracking") and fixed it with **LLM query expansion** in a **two-stage retriever**

Reddit UBC Reporter (*UBC CIC GenAI Hackathon*) | AWS Lambda, SAM, Bedrock (Llama, Claude), EventBridge, S3

Nov. 2025

- Built a **serverless, 4-function AWS Lambda pipeline** (fetch, analyze, summarize, email) with **dual-model Bedrock inference**: **Llama** for categorization, **Claude** for summarization, dispatching weekly r/UBC digests by **automated email**

Climate Change Forecasting | Python, SVR, Random Forest, Docker, Make, Quarto

Dec. 2025

- Modeled **222 years of Berkeley Earth data (1800–2022)**, comparing **Linear Regression**, **Random Forest** and **SVR** on **RMSE**, **MAE** and **R²**; SVR projected **2030 land temperature** at **~10.56°C**, about **2°C** above the **1951–1980 baseline**

Asteroid Hazard Classification (*B.Tech Research*) | Python, XGBoost, Random Forest, RFECV

2024

- Classified **958,524 NASA/JPL asteroid records** (~0.2% hazardous) reaching **89% recall** at **99.7% precision** (ROC-AUC ~0.99); **RFECV** selected 30 features and **MOID** and **absolute magnitude** emerged as the top hazard predictors

Education

University of British Columbia

Vancouver, BC

Master of Data Science — GPA 4.00/4.00

Sep. 2025 – Jun. 2026

- Graduate Teaching Assistant (CBTF Proctor)**: helped scale the testing facility from **22 to 31 courses** (+41%), **155 to 263 exams** (+70%) and **4,298 to 6,094 students** (+42%) in one term, across **38,000+ exams**

Symbiosis Institute of Technology

Pune, India

B.Tech in Computer Science & Engineering, Honours: Data Science

Aug. 2020 – May 2024

Technical Skills

Languages & Tools: Python, R, SQL, Docker, Git, pytest, AWS (Lambda, S3, Bedrock, SAM)

ML/DL: PyTorch, TensorFlow, scikit-learn, XGBoost, OpenCV, CNNs, YOLO, Transformers, Vision Transformers

Generative AI: LLMs (Claude, GPT, Llama, Gemini), RAG, Retrieval Evaluation, Vector Search, LangChain, Prompt Engineering

Data & Databases: Airflow, Kafka, PySpark, Snowflake, PostgreSQL, MongoDB, Neo4j, FAISS, ChromaDB

Visualization: Tableau, Power BI, QuickSight, Plotly Dash, Shiny, Matplotlib, ggplot2

Publications

SneakerXchange: Enhancing User Experience through HCI Principles | Accepted, top 15% acceptance rate

ICICC 2026

- 9th International Conference on Innovative Computing & Communication | Springer Lecture Notes in Networks and Systems