Ojasv Issar

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SUMMARY

Data Scientist and AI Engineer with 4+ years of experience building and deploying ML in production, from LLM and RAG systems to NLP, computer vision and data pipelines on AWS. Currently building the AI model behind Vintality's precision-viticulture platform. Master of Data Science, UBC (GPA 4.00/4.00).

EXPERIENCE

Vintality
Apr 2026 – Present
Data Scientist — *Vancouver, BC*

- Build the AI model behind Vintality's precision-viticulture platform, turning vineyard data into grower decisions.
- Own geospatial ML end to end, from NDVI, soil-conductivity and terroir feature engineering to deployed endpoints.

Independent Consultant
May 2022 – Apr 2026
Data Scientist — *Remote*

- Delivered end-to-end ML systems for **30+ clients**, including EdTech platforms Escalera Technologies and TechLearniversity.
- Fine-tuned XLM-RoBERTa on **15K+** Arabic reviews to beat the client's sentiment F1 baseline, then shipped it to production.
- Engineered CNN/YOLO vision and transformer NLP models that improved accuracy by up to **30%**.
- Architected Airflow, Kafka and PySpark ETL pipelines into Snowflake, PostgreSQL and Neo4j, powering BI dashboards.

Spartan Poker
Jan 2024 – Jun 2024
Data Analyst Intern — *Gurugram, India*

- Designed the company's first game-theoretic payout model, serving **50K+ players**.
- Built churn-prediction models that reduced player attrition by up to **30%**.
- Developed ML fraud-detection pipelines that improved detection by **60%** over the previous rule-based system.
- Led the Snowflake warehouse migration and QuickSight BI rollout, cutting query latency by **60%**.

PROJECTS

PavePal: Grounded AI for Road Maintenance | *UBC MDS Capstone · Python, RAG, LLMs, Embeddings* **2026**

- Built and evaluated a RAG system that grounds road-maintenance decisions in pavement surveys and DOT guidelines.
- Closed a retrieval gap general embeddings missed ("alligator cracks" vs. "fatigue cracking") via LLM query expansion.

Climate-Robust Crop Yield Forecasting | *PyTorch, TorchGeo, Vision Transformers, ONNX* **2026**

- Extended MMST-ViT to fuse Sentinel-2 imagery and WRF-HRRR weather data for county-level crop yield forecasting.
- Stress-tested it across heatwave, drought and extreme-rainfall years; added Grad-CAM explainability and ONNX export.

Reddit UBC Reporter | *UBC CIC GenAI Hackathon · AWS Lambda, Bedrock, EventBridge, S3* **2025**

- Automated weekly r/UBC email digests with a serverless Lambda pipeline: Llama categorizes posts, Claude summarizes.

Asteroid Hazard Classification | *B.Tech Research · Python, XGBoost, Random Forest, RFECV* **2024**

- Classified **958K** NASA/JPL asteroids (only ∼0.2% hazardous) at **89% recall** and **99.7% precision**.

EDUCATION

University of British Columbia
Sep 2025 – Jun 2026
Master of Data Science · GPA 4.00/4.00 — *Vancouver, BC*

- Helped scale the Computer-Based Testing Facility to 31 courses and 6.1K students (**+42%**) in one term as a Graduate TA.

Symbiosis Institute of Technology
Sep 2020 – Jul 2024
B.Tech, Computer Science & Engineering · Honours in Data Science — *Pune, India*

TECHNICAL SKILLS

Languages & Cloud	Python, R, SQL, AWS (Lambda, S3, Bedrock, SAM), Docker, Git, pytest
Machine Learning	Deep Learning, NLP, Computer Vision, PyTorch, TensorFlow, scikit-learn, XGBoost, OpenCV
Generative AI	LLMs (Claude, GPT, Llama, Gemini), RAG, Transformers, Vector Search, LangChain, Prompt Engineering
Data & BI	Airflow, Kafka, PySpark, Snowflake, PostgreSQL, Neo4j, Tableau, Power BI, QuickSight

PUBLICATIONS

SneakerXchange: Enhancing User Experience Through HCI Principles in a Reselling Website | *Springer* **2026**