

JAHANVI JESWANI

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EDUCATION

University Of Washington

Master of Science in Data Science; GPA: 3.90

September 2025 – May 2027

Seattle, USA

- Relevant Courses: Machine Learning, NLP, Applied Statistics, Scalable Systems, Deep Learning, Data Visualization

Shri G. S. Institute of Technology and Science

Bachelor of Technology in Electronics and Instrumentation; GPA: 3.78

August 2018 – May 2022

Indore, India

- Relevant Courses: Data Structures, Algorithms, Database Management Systems, OOPS, Statistics, Linear Algebra

EXPERIENCE

HP Inc. (via TEKsystems)

March 2023 - August 2025

Data Scientist, Print Supplies Team

Bengaluru, IN

- Designed and deployed end-to-end **predictive ML inference pipelines** for CLV models (**Cox PH, LightGBM, CatBoost**) on billions of telemetry events, reducing runtime by **40%** and enabling targeted retention strategies.
- Built Go-To-Market dashboard with compensation simulator using predictive models tracked via **MLflow** and served REST API's through **Databricks model serving, deployed on Streamlit** for Country Managers' strategic insights.
- Led development of a Databricks job monitoring system using **Azure CI/CD** and REST APIs, **reducing job failures by 10%** and improving cluster utilization. Built and deployed a PySpark preprocessing library as Python wheel package, standardizing scalable data extraction and transformation across big data projects.

Groww (Billion Brains Garage Ventures)

June 2022 – February 2023

Machine Learning Engineer-1, ML Team

Bengaluru, India

- Built and deployed real-time **XGBoost Classifier** propensity model processing millions of daily user interactions with robust feature engineering, achieving 82% precision and boosting Fixed Deposit adoption by **6–8% QoQ**.
- Applied NLP techniques, **Transformer-based (BERT) sentiment analysis**, and text mining on app reviews, combined with clustering on clickstream data, to identify causes of low NPS and inform product improvements.

Groww (Billion Brains Garage Ventures)

January 2022 –May 2022

Machine Learning Intern, ML Team

Bengaluru, India

- Built account security and fraud detection system using computer vision (YOLO) and OCR (Tesseract/EasyOCR) to identify fake registrations through identity documents.
- Achieved **78%** accuracy in detecting fraudulent account creation attempts, processed customer verification data at scale, and cleared backlog in **3 months**, reducing forged details risks.

PROJECTS

Agentic Customer Service Analyst | Python, LangChain, GPT-4o, TinyDB, PostgreSQL

2025

- Developed an AI agent using **aisuite** to implement a **Plan-as-Code** pattern, enabling **GPT-4o** to translate natural language user requests into executable Python plans.
- Engineered a **closed-loop system** that automates complex retail workflows, such as processing item returns and implemented concurrency patters and state validation, by executing model-generated code against a **TinyDB** backend.
- Architected a secure execution sandbox that documents multi-stage reasoning and surfaces "before and after" database snapshots to validate state changes and ensure transactional integrity.

EEG Bio-metric Authentication System (Research Assistant, IIT, Varanasi) | Python, Matlab, XGBoost, SHAP, LaTeX

2023

- Architected an end-to-end EEG pipeline using **XGBoost** and **Bayesian optimization** to achieve **81% multiclass accuracy** across a high-dimensional feature set, validated through Leave-One-Out Cross-Validation.
- Presented novel authentication based on low valence, low arousal (LVLA) stimuli, an emotional state eliciting distinctive brain signals at MIE 2023.

SKILLS

Languages & Systems: Python, C++, SQL, PySpark, YAML, Linux

ML Frameworks: PyTorch, TensorFlow, Scikit-learn, Transformers, Bayesian Optimization, A/B Testing

Engineering & MLOps: Kubernetes, Docker, Git, GitHub Actions, CI/CD, MLflow, PostgreSQL, Airflow

Agentic AI & Gen AI: GPT-4o, Llama 3, LangChain, RAG, Multi-Agent Orchestration, Vector Databases

Cloud & Big Data: AWS (SageMaker), Azure, GCP, Databricks, BigQuery, Snowflake

PUBLICATIONS AND AWARDS

- Jeswani, J., Govarthan, P.K., Selvaraj, A., et al. (2023). Low Valence Low Arousal Stimuli for EEG-Based Biometric Authentication. In Caring is Sharing: Exploiting the Value in Data for Health and Innovation, IOS Press, pp. 257-261. [https://ebooks.iospress.nl/doi/10.3233/SHTI230114]
- National Finalist, Philips Code to Care Challenge Season-2: Ranked in the top 10 teams all over India.