

JAHANVI JESWANI

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EDUCATION

University Of Washington

September 2025 – May 2027

Master of Science in Data Science; GPA: 3.90

Seattle, USA

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

Shri G. S. Institute of Technology and Science

August 2018 – May 2022

Bachelor of Technology in Electronics and Instrumentation; GPA: 3.78

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 APIs 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 patterns 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.