

# Ashu Kumawat

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## CORE COMPETENCIES

- Machine Learning & NLP
- Time-Series Forecasting
- Experiment Design & A/B Testing
- Data Visualization

## Education

**California State University, East Bay** — M.S. Data Science, **GPA 3.9** Aug 2023–May 2025

Core coursework: Applied Deep Learning, Machine Learning, Statistical Models, Time Series Analysis

**Vidyalankar Institute of Technology, Mumbai** — B.E. Computer Engineering, **GPA 3.9** Aug 2015–May 2018

## Skills

**LLMs & Agentic AI:** RAG pipelines, HuggingFace Transformers, LangChain/CrewAI multi-agent workflows, vector DBs.

**ML & Deep Learning:** PyTorch/TensorFlow, GNNs, vision-language models, time-series forecasting & anomaly detection.

**MLOps & Data Engineering:** PySpark, Airflow, Docker/Kubernetes, MLflow & CI/CD on AWS/GCP, scalable feature stores.

**Analytics & Visualization:** A/B & causal testing, SHAP/BERTScore interpretability, Tableau/Power BI/Looker storytelling.

## Experience

**California State University at East bay** — Research Assistant Jan 2024 – May 2025

- Designed GNN using 8M campus IoT readings, spotting HVAC anomalies to save 18 % energy and cut false alerts 40%.
- Built Vision-Transformer fused Sentinel-2 + PurpleAir, spotting smoke in <3 min at 92.6 % F1 across 7 NorCal counties.
- Designed Temporal-Fusion Transformer forecast occupancy (MAPE 39 → 24%), trimming janitorial OT 23%.

**Amrapali Electrotech Pvt. Ltd, India** — Data Scientist Dec 2021 – Apr 2023

Marketing-analytics vendor serving 10+ CPG brands

- Built predictive-marketing models on 5 TB+ campaign data (Python, AWS SageMaker), boosting client engagement 12%.
- Deployed a real-time anomaly-detection pipeline (statistical process control, PySpark) that flagged 95 % of campaign irregularities within 15 minutes.
- Led NLP sentiment analysis on 10 k+ feedback records (PyTorch, spaCy), raising CSAT 7 %.

**Verchaska Infotech Pvt. Ltd, India** — Associate Data Scientist Jun 2018 – Oct 2021

B2B travel-technology provider for 100+ airlines and OTAs

- Implemented XGBoost dynamic-pricing engine (Python, AWS EC2) that increased booking conversion 15 %.
- Delivered streaming Tableau dashboards (BigQuery) enabling real-time, personalized feature activation for 100+ clients.
- Automated CI/CD with Jenkins + Docker, trimming model deployment cycles 30 %.

## Projects

**Sign Language Translator — 1st Place Ideathon; Finalist AI Valley Hackathon**([Link](#))

- **Problem:** Real-time sign-to-speech translation for the deaf community.
- **Tech:** MediaPipe landmark extraction, TensorFlow LSTM/Transformer, ONNX-runtime on GPU.
- **Impact:** 92 % accuracy across 10 k+ signs with sub-120 ms latency.

**Lease Value Analysis — Finalist, Datafest 2025**

- **Problem:** Identify micro-trends in industrial lease rates.
- **Tech:** SARIMA forecasting, GeoPandas + Tableau geospatial visualizations.
- **Impact:** Insights projected \$1M in new leasing decisions for finance & tech clients.

**Credit Risk Classifier — Hack Hayward 2024** ([Link](#))

- **Problem:** Reduce loan-default exposure for a regional credit union.
- **Tech:** XGBoost, SHAP interpretability, Flask API.
- **Impact:** 81 % accuracy on 5 k applications, projected \$250 k annual savings.

## Certifications

- LLM engineering Udemy (Ongoing)
- Google Prompt engineering
- SQL for data Science Coursera

## Extracurricular & Community

- Analyzed ticket-sales and seating-usage data for Castro Valley Center for the Arts, recommending layout changes that revived attendance and lifted 2025 profits.
- Mentored youth founders at TheBackyardMovement, critiquing startups and mapping out next steps for growth.