

Abhilash Ganji

Applied Science & GenAI Engineer — AWS ML Specialist
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EXPERIENCE

- **EPAM** Hyderabad, India
Applied Science Engineer *May 2025 - Present*
 - **Personalized Offer Engine:** Architected a LightFM matrix factorization pipeline for offer recommendations, boosting engagement 12%; deployed with Snowflake integration for production scale.
 - **AI Forecasting Platform:** Built a Streamlit-based multi-market forecasting tool with Prophet & Bayesian Optimization, improving accuracy 23% across 5+ markets & 10 LTOs.
 - **GenAI IAM Policy Builder:** Designed a multi-cloud IAM policy generator using GPT models + ChromaDB, cutting creation time 80% for GCP, AWS, Azure.
 - **NLP Review Analysis:** Deployed Hugging Face transformer sentiment model, enhancing detection by +25%.
 - **Churn & Fraud Models:** Delivered K-Means segmentation + Random Forest churn prediction achieved 12% retention and logistic regression fraud detection reducing case investigations by 30%.
- **Amazon** Hyderabad, India
Data Science Engineer *Aug 2021 - May 2025*
 - **Attrition via GenAI:** Fine-tuned transformer-based BERT LLM for sentiment analysis on employee feedback; reduced churn 12% through proactive interventions.
 - **Big Data Engineering:** Built PySpark & AWS Glue pipelines onboarding 10B+ rows into Redshift; improved query efficiency 30%.
 - **Forecasting Automation:** Developed a Prophet time series forecasting model to predict weekly associate metrics, reducing manual workforce planning efforts by 96% by integrating Bayesian Optimization.
 - **Computer Vision:** Devised a CNN model for package damage detection, deployed on SageMaker, resulting in a 20% improvement in damage detection accuracy and annual savings of \$418K.
 - **Deep Learning:** Designed a custom ResNet deep learning model for automating product safety compliance during truck loading, reducing manual annotation by 18% and improving compliance by 10%.
 - **Notifications:** Implemented an email notification service with AWS SNS and Kinesis for sending optimized email and push notifications.
 - **Anomaly Detection:** Implemented an anomaly detection mechanism using Isolation Forest and Autoencoders, reducing false positives by 20% and improving critical anomaly detection by 30% in business metrics.
 - **Automation & Dashboard:** Developed an automated performance dashboard using Quicksight and Lambda for managerial insights, reducing manual work hours by 6,000 per year and saving \$85.5K in operational costs annually.
- **Solenis** Hyderabad, India
Data Science Analyst *Jun 2019 - Jul 2021*
 - **Data Processing & Web Scraping:** Launched a real-time COVID-19 impact bulletin using Selenium, BeautifulSoup, NLP to track shutdowns & layoffs for 5,000+ customers, providing critical insights to leadership.
 - **Sales Win Prediction:** Innovated a deal outcome using Random Forests to forecast win/loss outcomes, increasing the sales team's win rates by 15% and improving pipeline efficiency.
 - **Customer Churn:** Predicted customer churn with Logistic Regression, Random Forest, and XGBoost, achieving 92% accuracy; reduced churn by 15% using actionable insights.
 - **Optimization & Cost Savings:** Built global freight rate table saving \$1.4M by reducing leakage; Tableau dashboard flagged \$7M potential savings.

HONOURS AND ACHIEVEMENTS

- **National Racer:** Finalist in Nationals under Men's 2W stock 200cc category for 2 consecutive years.
- **Applied & Data Scientist:** Secured Rank 1 in global AI competition on classification with 4500+ Amazon's Techies.
- **AWS Certified Machine Learning Specialist:** Achieved one of the most challenging certifications on the platform.
- **Global Fellow:** Produced a strategy for an Italy client to launch a B2C channel under guidance of MBB consultants.
- **National Winner - IIM-B:** Presented a case-study strategy to enter into new segment with 2000+ students.

EDUCATION

- **Great Lakes Institute of Management** Chennai, India
Post Graduation Program in Data Science & Eng.; Top 5 Percentile *Aug 2018 - Jun 2019*
- **Osmania University** Hyderabad, India
Bachelor of Engineering in Electrical; Top 10 Percentile *Aug 2014 - Jul 2018*

PROGRAMMING SKILLS

- **AI & GenAI:** GPT, BERT, LLaMa, RAG, LangChain, LangGraph, Agentic AI, Transformers, Hugging Face, TensorFlow, PyTorch, Scikit-learn, LightGBM, XGBoost
- **Cloud & Data Tools:** AWS (Bedrock, SageMaker, Redshift, Glue, Lambda, S3, Kinesis), Snowflake, PySpark, Terraform
- **Big Data & Databases:** PostgreSQL, MongoDB, DynamoDB, Elasticsearch, Redis, ChromaDB, Pinecone
- **MLOps & Visualization:** MLFlow, Airflow, Docker, Kubernetes, Streamlit, Tableau, Power BI, Plotly, Seaborn, Matplotlib
- **Languages:** Python, R, SQL, JavaScript, Scala, Java, Shell Scripting