

Akhila Jagarlapudi

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EDUCATION

Carnegie Mellon University

Master of Information Systems Management (MISM)

Coursework: Data Science for PM, Accounting & Finance Analytics, Data Analytics for Decision Making, Digital Transformation, Managing Disruptive Technologies, A/B Testing, Distributed Systems, OOP in Java, Database Management, NoSQL, MLOps

Veerмата Jijabai Technological Institute

Bachelor of Technology in Electronics & Telecommunication Engineering

Pittsburgh, PA

Aug 2024 - Dec 2025

Mumbai, India

Aug 2018 - June 2022

PROFESSIONAL EXPERIENCE

Multiplier Qbeast

Pittsburgh, US

Software Product Manager (Backend Engineer)

May 2025 - Aug 2025

- Led 0→1 development of Qbeast's Customer Portal MVP (v0.5.0), translating business and analytics requirements into product workflows enabling real-time dataset indexing and secure IAM-based access controls for S3, GCS, and Azure environments
- Benchmarked distributed storage optimizations including Z-ordering and Parquet compression, reducing query latency by 30% and lowering compute costs by 14% through partition-aware data layout tuning.
- Implemented performance testing workflows across multiple partition configurations to identify optimal indexing strategies for large analytical workloads.

Citi Bank

Pune, India

Software Engineer | Core Compliance Team & Global Accounting Engine

July 2022 - May 2024

- Developed full-stack surveillance dashboards (Angular, REST APIs, SQL) to analyze trade communications across 200K+ employees, improving anomaly detection latency by 5% and strengthening internal compliance monitoring systems.
 - Designed and maintained SQL-based data pipelines processing 1M+ financial transactions daily, achieving 97.5% reliability and supporting high-availability reporting workflows.
 - Implemented CI/CD pipelines using Jenkins and Bitbucket, increasing automated test coverage from 67% to 83% and reducing post-release defects by 27%.
 - Built IFRS9 financial reporting systems managing \$120M in monthly financial flows, ensuring accurate regulatory reporting and enabling a zero-defect migration during a major Mexico divestiture.
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PROJECTS

NVIDIA x CMU | Data Engineer & Analyst, Customer & Platform Strategy

Aug 2025 – Dec 2025

- Built Python pipelines using pandas and scikit-learn to process 30K+ social media posts, enabling large-scale sentiment analysis and audience segmentation.
- Engineered feature pipelines and clustering models to identify under-served audience segments, informing product marketing and campaign strategy decisions.
- Automated ETL workflows and dashboards using SQL and Tableau, improving reliability and standardizing metrics across three business units.

Kearney Consulting - Access Holdings x CMU | Product Analyst

Aug 2025 – Dec 2025

- Engineered a Python based data pipeline integrating multi-source economic datasets (BLS, FRED, Indeed) to generate interpretable macro signals and labor-market composite indices using Principal Component Analysis (PCA) and correlation modeling for investment decision support.
- Developed an OpenAI-powered executive AI agent enabling conversational querying of indices, scenario comparisons, and macro-trend exploration, improving accessibility of AI-driven insights and accelerating C-suite strategy discussions.

Distributed Mobile-to-Cloud Application (Android)

- Designed and implemented a distributed application architecture with an Android client, RESTful backend services, and a cloud-hosted analytics dashboard.
- Built backend APIs for request routing, validation, and persistence while storing application logs in MongoDB to enable scalable monitoring and analytics.
- Integrated an external Dictionary API and implemented structured response handling to ensure reliable real-time word lookup functionality.

Research & Publications (IEEE)

- [DeepFake Detection \(2022\)](#): Developed 97M-parameter model achieving 3000+ FPS on NVIDIA DGX-1 for content authenticity verification.
 - [Leaf Disease Classification \(2021\)](#): Built CNN model identifying 42 species with 92.3% accuracy and 100× faster transformations.
 - [EEG-based Migraine Detection \(2021\)](#): Designed VR-integrated mobile app enabling early-stage migraine prediction & prevention.
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SKILLS

- **Programming Languages:** Java, Python, SQL, Bash
- **Backend & Application Development:** Spring Boot, REST APIs, Microservices Architecture, Android (Java), API Integration, Distributed Systems
- **Cloud & DevOps:** AWS (S3, EC2), Azure Storage, CI/CD (Jenkins, Bitbucket), Git, Autosys
- **Databases & Data Systems:** MongoDB (NoSQL), BigQuery, Relational Databases, ETL Pipelines, Data Modeling
- **Machine Learning & AI:** scikit-learn, TensorFlow, PCA, Clustering (KNN), Regression, Feature Engineering, Model Evaluation
- **Generative AI & AI Applications:** LLM-assisted development workflows, AI-powered data analysis pipelines, Prompt Engineering, OpenAI API integration, GenAI-assisted analytics and experimentation
- **Data & Visualization:** Tableau, Power BI, Plotly, Excel, Statistical Analysis, Dashboarding