

# PANDI (VISH) VISHUVA

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## PROFESSIONAL SUMMARY

Data Engineer with 3+ years' experience performing large-scale data analysis, **cloud-integrated analytics systems** & supporting Data pipelines. With a blend of Python, AWS services expertise & statistical model expertise, I've collaborate with cross-functional teams in delivering measurable impact. Team player with deep knowledge in **end-to-end deployment** aligned model architecture.

## PROFESSIONAL EXPERIENCE

**Ross Centre for Disability Services - University of Mass. Boston** - *Technology-enabled, equitable access adopter* **Boston, MA**  
**Developer Assistant** August 2025 - December 2025

- Architecting and developing a **cloud-native accessibility application architecture** modernizing the monolithic student accommodation system into a modular, event-driven platform focusing on alt. access & technology
- Building the backend serverless using AWS Lambda, API Gateway, and RDS (PostgreSQL), exposing secured RESTful APIs consumed by a React Native front-end & terraform for Infrastructure as Code(IaC)

**Accenture** - *World's leading consulting, technology & operational services* **Hyderabad, India**  
**Application Development Engineer (On-site Consultant Deployed from Accenture)** May 2021 - December 2023

- Contributed to the technical consultation team 'Project Kalpatru-NMDC Ltd' - 11 modules, 29 contributors, 15158 users
- Built & managed 5+ Python/ABAP modules turning legacy OpenSQL data to actionable data reports with automated services
- Coordinated with dev & QA spending **17+** hours per week in code review, boosting uptime by 3% increasing attention to detail
- Authored 30+ technical documentation, onboarding new team members, & documenting knowledge transfer

**TATA Consultancy Services** – *India's leading end-to-end IT services consultancy across industries* **Chennai, India**  
**Associate Developer** March 2021 - May 2021

- Helped designing 2 analytics dashboards for Telecom & Banking clients with visibility to operational metrics
- Improved product quality establishing CI/CD workflows using Git, Jenkins & code validation processes
- Optimized SQL queries & stored procedures, R for analytics, supporting high-volume transactional systems

## EDUCATION

**University of Massachusetts Boston** **Boston, MA**  
Master of Science: Information Technology (STEM Designated 11.0103) | GPA 4.00 January 2024 – December 2025

- **Academic Capstone Project:** Data Engineering at **Drug demand forecasting model using LLM**- Designed Kafka & AWS pipelines, scalable data models, & analytics-ready dataset enabling reliable forecasting towards 1.8 trillion global pharmaceutical market
- **Teaching Assistant** for "Data Warehousing for Business Intelligence" (IT 471) & "Data Mining for Management applications" (IT 472), taught 30+ undergraduate students per class

**Anna University Chennai** **Chennai, India**  
Bachelor of Technology: Information Technology June 2016 - November 2020

- **Research Assistant:** Conducted ~25 interviews to develop **emergency assistance** tech designs for the well-being of geriatric patients

## SKILLS & Certifications

- **Certifications:** AWS Certified Solution Architect – Associate, AWS Certified AI Practitioner
- **Programming:** Python, SQL, R, MATLAB, SAP ABAP; **Databases:** PostgreSQL, MySQL, Oracle, SAP HANA
- **Data Engineering:** Spark, Kafka, AWS Lambda, S3, Athena, RDS, Event-driven pipelines
- **Cloud & DevOps:** AWS (Lambda, EC2, S3, API Gateway, IAM), Docker, Jenkins, GitHub CI/CD
- **Tools:** JIRA, Postman, GitHub Copilot, CloudWatch, Terraform, REST API testing, Android Studio
- **Analytics & Business Intelligence:** PowerBI, Tableau, Excel, Pandas, NumPy, PyTest

## ACADEMIC & PERSONAL PROJECTS

**LLM-Driven Drug Demand Forecasting** - *AWS, Kafka, Python, PowerBI*

- Analyzed 10+ regional records (~200k) identifying demand-supply gap, for 3 high-need regions covering ~18% unmet demand
- Reduced projected stock-out risk by 30%, enabling inventory optimization & identifying targeted regional market campaigns

**Application for Time Series Analysis of Weather Forecasting** – *MATLAB, Android Studio*

- Built ANN timeseries model on 50K+ weather records, improving short-term forecast accuracy by 5% over traditional method
- Implemented ANN, TLNN, and SANN in MATLAB with Android-based visualization, enabling real-time forecast monitoring

## ADDITIONAL INFORMATION

- On-site Client Liaison; Spearheaded 7-member tech team for Go-Live, for smooth, issue-free deployment
- Student Hall Secretary; Represented 600+ residents in policy decisions and infrastructure feedback