

## AISHWARYA RAO KALLEPU

Tampa, FL | +1 656-565-9217 | [aishurao2021@gmail.com](mailto:aishurao2021@gmail.com)

### PROFILE

Analytical and tech-savvy Business Intelligence and Software Engineer with hands-on experience in Power BI, SQL Server, Python, and .NET development. Adept at building interactive dashboards, optimizing SQL queries, and integrating data pipelines for actionable insights. Proven ability to deliver solutions supporting healthcare, finance, and AI-powered research projects. Strong communicator and team collaborator with a passion for translating complex data into strategic intelligence.

### EDUCATION

#### University Of South Florida, Tampa, FL

Master's in computer science

AUG'23-AUG'25

Relevant Coursework: Data Analytics, Smart and Connected Health, Cloud Computing, NLP, Machine Learning

#### Kakatiya Institute of Technology and Sciences Warangal, India

JUL'19-MAY'23

Bachelor of Technology in Computer Science

Relevant Coursework: DBMS, Data Warehousing, Cloud Computing, Algorithms, Object-Oriented Programming

### SKILLS

- Languages & Tools: SQL, Python, VB .NET, T-SQL, DAX, C#, Excel (Advanced), JSON, Git
- Business Intelligence: Power BI, Power Query, KPI Dashboards, SSMS, Data Modeling, Reporting
- Databases: Microsoft SQL Server 2017, ADO.NET, Entity Framework, ChromaDB (Basic)
- Cloud & DevOps: Azure, Azure DevOps, CI/CD Pipelines, GitHub
- AI & Frameworks: LangChain, Prompt Engineering, OpenAI APIs, TensorFlow (Intro)
- Software Engineering: Agile, SDLC, REST APIs, Unit Testing, Documentation
- Soft Skills: Data Analysis, Communication, Problem Solving, Team Collaboration

### PROJECTS

#### Capital Forecasting Dashboard | *Power BI, SQL, KPI Tracking*

- Created multi-layered dashboards for financial forecasting and compliance tracking.
- Integrated Power BI with SQL Server views to dynamically reflect risk, pacing, and allocation metrics.

#### Stored Procedure Test Suite | *SQL Server, SSMS*

- Built a reusable QA framework to validate SQL stored procedures and assess performance under edge cases.
- Used test data generators to simulate complex data conditions and streamline DevOps deployments.

#### CI/CD for BI Reporting Pipelines | *Azure DevOps, SQL*

- Automated SQL schema validation, report versioning, and pipeline monitoring for BI releases.
- Enabled faster feedback loops for BI report changes using integrated testing steps.

#### AI Workflow with LangChain | *Python, ChromaDB, LangChain*

- Developed an LLM-powered system for extracting structured insights from real estate research data.
- Integrated RAG pipelines and prompt templates for dynamic Q&A responses.

#### Medical Software Optimization | *Python, SQL, C#*

- Refactored legacy reporting logic in healthcare tools and supported analytics migration to cloud.

#### Multithreaded Data System | *C++, Socket Programming, Linux*

- Built a thread-safe binary signal processing system; benchmarked performance across data volumes.

### WORK EXPERIENCE

#### Graduate Research Assistant

Aug '23 - Present

University of South Florida, Tampa, FL

- Created analytical tools and dashboards for oncology research using SQL and Power BI.
- Developed VB .NET modules for medical data processing and optimized query performance across datasets.
- Integrated LLM workflows into research tools and collaborated with data teams for visualization needs.

#### AI Engineer Intern (Freelance)

Jan 2023 – Aug 2023

- Designed Python-based intelligent agents using LangChain and integrated with SQL and RESTful services.
- Developed automated workflows to extract KPIs and business metrics for healthcare clients.
- Documented AI workflows and provided visualizations to support decision-making.

#### President, University of South Florida Squirrel Club

Jan '24 – Present

- Initially served as Treasurer, managing the club's finances with transparency and accountability.
- Coordinated with international students to provide support, including accommodation, transportation, and insurance details.
- Enhanced the sense of community among international students, ensuring they feel supported during their time at USF.

#### QA- Intern (KITSW) -Warangal, India

Jun 2022 – May 2023

- Developed and executed test plans for BI applications and validated KPI rules using SQL scripts.
- Conducted data profiling, bug tracking, and collaborated with developers to enhance report logic.

### AWARDS AND ACHIEVEMENTS

- **Hackathon Winner (Internal Hackathon, 2019):** Demonstrated exceptional problem-solving and coding skills.
- **Organizer, Cancer Awareness Program (World Cancer Day, 2024):** Led a successful campaign raising awareness of cancer prevention and treatment.
- **Joint Secretary, Literary Club (2019–2020):** Organized literary events, fostering engagement and creativity.
- **Network+ Equivalent (Hands-on Routing & DSL Projects).**