

Kamireddy Thishalini

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PROFESSIONAL SUMMARY

Detail-oriented technology professional with strong hands-on experience in Python, SQL, Excel, and web application development. Skilled in data cleaning, exploratory analysis, dashboard creation, and building database-driven applications using Django, MySQL, HTML, CSS, and JavaScript.

TECHNICAL SKILLS

- Programming: Python
- Web Technologies: HTML, CSS, JavaScript, Django
- Databases: MySQL
- Data & Analytics: Microsoft Excel (Pivot Tables, charts, Dashboarding, Reporting)
- Tools & Platforms: PyCharm, Visual Studio Code, GitHub
- AI-Assisted Development: ChatGPT, Claude AI (code optimization, debugging)

PROJECT EXPERIENCE

1. Pizza Sales Analysis

- Analyzed sales data from MySQL using complex joins and aggregations to evaluate revenue, demand patterns, and top-selling items.
- Cleaned and validated datasets using SQL and Excel to ensure accurate reporting.
- Built an interactive Excel dashboard to visualize peak hours, category performance, and daily sales trends.

2. Customer Purchase Behavior Analysis

- Analyzed 10,000+ transaction records using Python (Pandas) and MySQL to identify customer segments and purchasing trends.
- Improved data quality through missing value treatment and duplicate removal.
- Developed Excel dashboards to visualize seasonal patterns and top-performing products.
- Leveraged AI-assisted tools (ChatGPT, Claude AI) for query optimization, code validation, and analytical reasoning under human supervision.

3. Human Activity Recognition – Sleep Fall Detection

- Designed a CNN–BiLSTM model using accelerometer and gyroscope data to classify nine human postures.
- Engineered features and optimized the pipeline, achieving 96% classification accuracy.
- Evaluated model performance using confusion matrix and classification metrics.

4. To-Do Web Application (Django)

- Developed a task management web application using Python and Django with secure user authentication.
- Implemented CRUD operations for tasks with status tracking and filtering features.
- Designed responsive user interfaces using HTML, CSS, and JavaScript with MySQL as the backend database.

CERTIFICATIONS

Python Full Stack Development – FIIT, Avadi (2025) [Link](#)

- Hands-on training in Django-based application development, frontend-backend integration, and database-driven workflows.

Deloitte Data Analytics Job Simulation (2025) [Link](#)

- Performed data cleaning, analysis, and dashboard creation using Python and Excel to support business decision-making.

Data Analytics with Python – NPTEL (2025) [Link](#)

- Covered Python fundamentals, probability, sampling, hypothesis testing, ANOVA, linear and logistic regression, ROC analysis, clustering, and CART model building.

Implant Training – Biomedical Engineering, Bloomlife Hospital, Velachery (2024) [Link](#)

- Exposure to clinical data collection workflows involving ECG and BP monitoring systems.

EDUCATION

- Bachelor of Technology in Biomedical Engineering
Vel Tech University, Chennai

8.1 CGPA
2022-2026