

KEERTHANA PULAKANI

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TECHNICAL SKILLS

Programming Languages: Python, Java, C, SQL

Core CS: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Database Systems, Computer Networks

Data Engineering Tools: Power BI, Excel, Pandas, NumPy

Frameworks: React.js, Node.js, Express.js, Bootstrap

Tools: Git, RESTful APIs, MySQL

PROJECTS

- **Smart AgriShield (IoT + Data Engineering)** – Designed an end-to-end data pipeline using Python to collect soil moisture and temperature data from IoT sensors. Streamlined ingestion to SQL database, implemented validation scripts, and built Power BI dashboards to forecast irrigation needs. Reduced data latency by 40% and improved crop health monitoring accuracy by 50%.
- **Student Database Management System (Python + SQLite)** – Built normalized database schemas and optimized SQL queries for faster data retrieval. Implemented indexing, joins, and stored procedures to reduce query response time by 25%. Added secure user authentication for restricted data access.
- **Netflix Clone (Full-Stack + SQL Integration)** – Architected backend APIs using Node.js and Express for video metadata retrieval. Designed scalable relational database models for users, subscriptions, and content categories. Integrated SQL joins to optimize watch history queries and reduced API response time by 30%.
- **Speed Typing Test (Python)** – Developed a CLI-based Python program to measure typing speed and accuracy. Incorporated data logging features and trend visualization to track improvement over time. Used file handling and data structures to efficiently store and analyze user performance.

EDUCATION

Sumathi Reddy Institute of Technology for Women (SRITW), Warangal

2022 – 2026

B.Tech in Electronics & Communication Engineering

Relevant Coursework: Data Structures, Database Systems, Machine Learning, Operating Systems [8pt] **Nxtwave**

CCBP 4.0 Academy

-Ongoing

Full-Stack & Data Engineering Certification Program

CERTIFICATIONS

- Smart Coder (DSA): smartinterviews.in/certificate/73d1d965
- Python Foundations: ccbp.in/.../python
- Responsive Web Design with Flexbox: ccbp.in/.../flexbox
- Introduction to Databases: ccbp.in/.../databases

ACHIEVEMENTS

- Finalist – InnovateHer Hackathon (Top 5/200+ teams) for Smart AgriShield IoT solution integrating real-time analytics and sensor data.
- Successfully deployed data pipelines combining Python, SQL, and BI tools, enhancing accuracy and processing speed.
- Recognized at NxtWave Academy for database design precision and clean, maintainable code structure.
- Consistently achieved 90%+ project success rate by meeting deadlines and optimizing query performance across datasets.
- Mentored peers in data analytics concepts, SQL optimization, and Power BI storytelling techniques.