

MANI SHANKAR REDDY MALI

Phone: +1 (913)4569167

Email: manishankarreddy113@gmail.com

LinkedIn: [linkedin.com/in/manishankarreddy31](https://www.linkedin.com/in/manishankarreddy31)

OBJECTIVE

A motivated and dedicated Computer Science student seeking a Junior Software Development Engineer position where I can apply my programming expertise in Python, Java, and C++. With a strong foundation in object-oriented design and problem-solving, I am eager to contribute to innovative projects and tackle complex technical challenges. I am excited to gain hands-on experience, collaborate with experienced professionals, and grow my skills in a dynamic team environment, with the goal of advancing my career and making a meaningful impact.

EXPERIENCE

Internship (Junior Software Engineer)

Meuwic Technologies, 2023 - Bangalore, India

- Built full-stack applications using Python for backend development and HTML/CSS for the frontend, ensuring smooth user interactions and efficient system performance.
- Implemented object-oriented design (OOD) principles, including inheritance, polymorphism, encapsulation, and abstraction, to create well-structured, maintainable, and scalable code for both the backend and frontend.
- Contributed to the creation and integration of RESTful APIs, enabling seamless communication between the frontend and backend, which improved data flow and overall system functionality.
- Developed and integrated machine learning models using Scikit-learn and TensorFlow, building predictive algorithms to deliver data-driven insights within the application.
- Assisted in data preprocessing, such as cleaning datasets and engineering features using Pandas and NumPy, to ensure machine learning models were trained with clean and structured data.
- Worked with MySQL and MongoDB to manage and optimize application data, writing efficient queries to support both machine learning features and full-stack development needs.
- Integrated machine learning algorithms into full-stack applications, adding real-time analytics and recommendation features to enhance user experience.
- Participated in code reviews to ensure adherence to best practices in object-oriented programming, maintaining high code quality, clarity, and maintainability.
- Wrote unit tests for both backend services and machine learning models, ensuring reliability and high performance across the application.
- Gained hands-on experience using Git for version control, working closely with team members to manage code updates and troubleshoot any issues.

EDUCATION

- Master's in computer science
University of Central Missouri (2023-2025 Warrensburg, Missouri)
- Bachelors in Electronics and Communication Engineering
CVR College of Engineering (2019-2023 Hyderabad, India)

SKILLS

- Technical Skills: Python, R, Java, C++, SQL, HTML, CSS

- Data Science & Machine Learning: Machine Learning (ML), Neural Networks, Natural Language Processing (NLP), Python Scripts
- Databases: MongoDB, SQL, MySQL
- Cloud Technologies: AWS, Azure, GCP
- BI & Data Visualization Tools: Power BI, Data Visualization
- Big Data & Data Processing: PySpark
- Object-Oriented Programming (OOP): Concepts of OOP (Inheritance, Polymorphism, Abstraction, Encapsulation)
- Web Development: Django
- Design Patterns: Singleton, Factory, Observer, Strategy
- Algorithms: Sorting, Searching, Dynamic Programming, Graph Algorithms, Data Structures (Arrays, Linked Lists, Trees, Graphs)
- Version Control: Git

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate
Issued by [Amazon Web Services Training and Certification](#)
- Python Data Structures - Issued by Coursera.
- workshop on introduction to python programming (11/2021-11/2021) conducted by technologies in collaboration with IETE SF.
- Database Programming with SQL (04/2022 - 05/2022) Award of Course Completion - Oracle Academy.
- Database Programming with SQL (04/2022 - 05/2022) Award of Final Exam Completion- Oracle Academy.
- Certified as technology Virtual Experience Program with DELOITTE.

ACHIEVEMENTS

- PYTHON, DATA ANALYTICS, DATA VISUALIZATION
Participated in Python, Data Analytics, Data Visualization with shapeAI and Collaboration with GDG Ranchi Google Developers and Developer Student Clubs.

PROJECTS

Event Booking Platform

- Users Table: Stores details of regular users who browse and book events.
- Organizers Table: Contains information about users who create and manage events.
- Events Table: Tracks event-related data such as title, location, date, and ticket availability.
- Bookings Table: Records tickets purchased by users for different events.
- Reviews Table: Allows users to leave feedback about attended events.
- Payments Table: Logs payment transactions for event bookings.
- Categories Table: Classifies events based on their type for better organization.
- Table Relationships:
Users can book events.
Organizers can create and manage events.
The system efficiently tracks payments, reviews, and bookings.

Real- Time Pothole Detection using Deep learning

- Objective: Solves the problem of avoiding potholes on roads using AI-based detection.
- Model Used: Implemented Transfer Learning with ResNet50 to detect potholes.
- Functionality: Identifies whether potholes are present or not on the road.
- Integration: Can be incorporated into autopilot vehicle modes for real-time pothole avoidance.
- Impact: Enhances road safety by enabling vehicles to detect and avoid potholes automatically.

Sales-Analytics Dashboard

- Purpose: An advanced tool for tracking and analyzing sales data in real-time.
- Key Metrics: Provides visualizations of revenue, sales trends, product performance, and customer behavior.
- Decision-Making: Enables businesses to make informed decisions based on data insights.
- Features:
 - Interactive Filters: Allows users to refine data by time, product, or region.
 - Trend Forecasting: Predicts future sales trends for strategic planning.
 - Detailed Breakdown: Provides in-depth analysis of sales performance.
- Technologies Used:
 - Power BI: Created interactive and dynamic visualizations for better insights.
 - Python & Pandas: Processed and cleaned large datasets efficiently for analysis.
 - MySQL Database: Stored and managed structured sales data for efficient retrieval.

Healthcare Data Analysis

- Cleaned and preprocessed healthcare data with Pandas and NumPy, addressing missing values, removing duplicates, and transforming the dataset to make it ready for analysis.
- Managed healthcare data in a MySQL database, running optimized queries to efficiently retrieve and update data for in-depth analysis.
- Leveraged PySpark to handle large datasets, enabling faster data processing and analysis on healthcare-related information.
- Created interactive dashboards and visualizations with Power BI, presenting key metrics like patient readmission rates and treatment success to support decision-making.
- Used the dotenv library to securely manage environment variables, ensuring sensitive configuration data like database credentials was protected.
- Conducted statistical analysis with Pandas, uncovering trends in healthcare data to provide actionable insights aimed at improving patient care and hospital operations.