Manoj Ms

Software Development Engineer

+916360099113 | manojmsaiml@gmail.com | Mysore, Karnataka, 570016, India | LinkedIn

SUMMARY

Software Developer with strong expertise in full-stack development, specializing in integration solutions and REST API implementation. Skilled in designing and optimizing relational databases with a focus on reliability, performance, and sustainability of code. Proven ability to work independently and within multi-functional teams to deliver scalable and high-quality software components. Experienced in testing, validating, and maintaining robust software in Agile environments, demonstrating excellent attention to detail and interpersonal skills. Passionate about leveraging information technology to create seamless data exchange and drive innovation in digital experiences.

SKILLS

Programming Languages	:	C, C++, Java, Python, JavaScript
Web Development	:	HTML5, CSS3, React.js, Node.js, Express.js, Flask, RESTful APIs
Database Management	:	SQL, MySQL, PostgreSQL, Relational Databases, Database Performance Optimization
Cloud Technologies	:	GCP, Amazon Web Services (AWS), Docker, AWS, CI/CD pipelines
Machine Learning	:	Scikit-learn, TensorFlow, Keras, PyTorch, Support Vector Machines, CNN, RNN, LSTM
Tools & Platforms:	:	Git, GitHub, Jenkins, Docker, Visual Studio Code, Postman, Adobe Analytics
Software Engineering:	:	Object-Oriented Programming, Data Structures and Algorithms, Agile Methodology, Scrum
Additional Skills:	:	Integration of software components, Implementation and testing of components, Multi-functional collaboration, Problem Solving, Work Independently, Attention to Detail, Interpersonal Skills, Effective Communication, Deadline Management

EDUCATION

Vidyavardhaka College of Engineering, mysore, India - *Bachelors, Computer science and Engineering specialized in Artificial Intelligence and Machine Learning - GPA: 8.98 cgpa*	**Dec 2022 - Jul 2026**
Sheshadripuram PU college, mysore - *PUC, PCMB - GPA: 94.5%*	**Sep 2020 - Jul 2022**
Karnataka Examination Board, mysore, India - *10th, SSLC - GPA: 95.2%*	**Jun 2019 - Apr 2020**

EXPERIENCE

Software Developer Intern, Wider Technologies, mysore, India **Apr 2024 - Feb 2025**
- Gained full-stack web development experience by websites for clients including Habibs AK-Textiles, Janani Mansion
- Solely designed, developed, and deployed : apollohealthandfitness website using Yoast SEO,increasing traffic to 100+.
- Played a key role in the development of multiple projects, designing user-centric features using agile methodologies:
- Kayess Square: Contributed to developing a Chartered Accountants (B-C) platform to access and manage client data efficiently, helping file processing speed by 40% by applying software engineering principles and backend development
- Astro Santhvana: Developed Python backend modules using Flask and MySQL for an astrology app,integrating YouTube videos (via : IFrame Player API) with real-time updates using Flask-SocketIO for user engagement.
- Sri Kanteshwara Electronics Billing System : Developed and enhanced billing system using Python, Flask, MySQL by adapting source code to client specific requirements , improving accuracy by 25% and reducing processing time by 30%.

AI Intern – IBM SkillsBuild + CSRBOX (Virtual Internship), mysore, India **Jul 2024 - Aug 2024**
- Completed a hands-on internship program focused on Artificial Intelligence applications in real-world scenarios.
- Implemented ML models using Python for data science tasks, leveraging IBM Watson tools and Jupyter Notebooks.
- Built and tested predictive models for classification tasks, aids to a mini capstone project on decision making systems.
- Gained practical exposure to REST API integrations, model deployment, and component testing.
- Enhanced skills in sustainability-focused AI solutions, data exchange processes, and cloud-based strategies.

PROJECTS

Stickman Shootout with Adaptive AI
- **Tools:** Python, PyGame, Flask, Q-Learning
- Built a 2D shooter with 3 game inspiration:(Chess Grid, Stickman quick rapport building Shootout, Hidden Search) and backend integration.Implemented Q-Learning with 85% accuracy in predicting enemy and bomb position reduced response time by 40%.

Instagram Emotion Recognition System
- Tools: Python, TensorFlow, Keras, NLTK, Instagram Graph API
- Built an LSTM-based NLP model to classify emotions from Instagram captions and comments with high accuracy & performance.

- Achieved 90% classification accuracy, demonstrating strong skills in deep learning, text preprocessing, and sentiment analysis.

Artificial Intelligence in Automatic Classification of Invasive Ductal Carcinoma Breast Cancer in Digital Pathology Images

- Tools: Deep Learning, CNN, Transfer Learning
- Developed and evaluated deep learning models, including a baseline CNN and transfer learning with VGG-16, achieving up to 85% accuracy in classifying IDC from 277K+ pathology image patches.

CERTIFICATIONS

Infosys: Programming in C, Python Programming Fundamentals

Coursera: Machine Learning – Stanford University, Software Development Lifecycle

coursera: Intro to Operating Systems – Codio, Alibaba Cloud Computing

VOLUNTEERING

Outreach Head , (Vectorflow club) :
Spearheaded outreach programs targeting pre-university students, effectively promoting the AI & ML engineering branch and fostering interest in coding through engaging workshops and interactive sessions.