Joseph Daniel Kumarapu

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https://github.com/JosephDaniel2810

SUMMARY

Results-driven Python and React.js developer with a Master's in Information Systems and over a year of experience in full-stack web development and applied machine learning. Skilled in building AI-powered applications, predictive models, and interactive data visualizations using modern development tools and frameworks. Experienced in using PyCharm, VS Code, Cursor and GitHub Copilot to streamline AI-assisted development workflows.

- Master's degree in Information Systems.
- 1+ years of experience in web development using technologies like React.js, JavaScript, Python, Django, jQuery, HTML, CSS, and Bootstrap.
- Hands-on experience building machine learning models for healthcare diagnostics, environmental predictions, and financial forecasting.
- Proficient in using Scikit-learn, Pandas, and Matplotlib for data analysis, training models, and generating insights.
- Designed and deployed end-to-end ML applications using Flask APIs with Streamlit UIs and visual dashboards.
- Experienced with AI integration using OpenAI SDK to build intelligent agents for real-time stock market analysis.
- Familiar with Cursor.io to enhance development productivity through context-aware AI assistance.
- Strong knowledge of RESTful APIs and JSON communication for service-oriented architecture.
- Skilled in database development and management using MySQL and SQL Server.
- Understanding of software architecture including modular design, layered systems, and reusable components.
- Effective in implementing responsive UI/UX design and data-driven visualizations with JavaScript.
- Experienced in version control and CI/CD workflows using Git and GitHub Actions.
- Effective communicator with excellent problem-solving skills and a collaborative mindset.
- Self-motivated, adaptable, and capable of working independently or as part of a team in fast-paced environments.

CERTIFICATIONS

IBM	Python for Data Science, AI & Development
UNIVERSITY OF LONDON	Management Skills for International Business
MACQUARIE University	Professional Development: Improve Yourself, Always

SOFTWARE SKILLS

Web Technologies	React, Next.js, HTML, JSON, TailWindCSS, DJANGO
Languages	JavaScript, Python
Databases	MySQL, PostgreSQL
Other Tools/skills	Docker, Kubernetes, Jenkins, Power BI, Tableau, Git, Cursor, Visual Studio Code

EDUCATION

Master of Science in Information Systems   New Jersey Institute of Technology, Newark, NJ (2022 - 2024)
Bachelor of Technology in Electronics and Communication Engineering   Gitam University, Visakhapatnam, India (2018 - 2022)

PROJECTS

CloudatHand

Designed and developed a visually engaging, fully responsive web application to present a modern tech company's services, case studies, and industry insights. Built using Next.js for efficient routing and server-side rendering, Tailwind CSS for rapid UI development, and Framer Motion for seamless animations, the application offers an interactive and immersive user experience. The site includes structured sections such as Services, Industries, Insights, and Contact, with a focus on clean design and smooth transitions. Emphasized user engagement through animated dropdown menus and responsive layouts. Deployed using Vercel for optimal performance and scalability

Technologies: JavaScript, React, Next.js, HTML, TailWindCSS, Git, GitHub, Framer Motion, Vercel.

Git: https://github.com/JosephDaniel2810/CloudatHand

Heart Disease Prediction

Developed a machine learning application to predict the likelihood of heart disease using clinical input features. Trained and evaluated models including Logistic Regression, Random Forest, and SVM to identify the most accurate classifier. Built a RESTful Flask API to serve predictions and integrated a Streamlit frontend for user interaction. The interface includes input forms, real-time predictions, and dynamic visualizations such as radar, pie, bar, and scatter charts to enhance interpretability. Deployed the model and UI for accessible use, demonstrating end-to-end ML deployment skills in a healthcare context.
Technologies: Python, Scikit-learn, Flask, Streamlit.
Git: https://github.com/JosephDaniel2810/Heart-Disease-Prediction

Investment Research Agent

Built an intelligent command-line assistant for stock market analysis using the OpenAI SDK Agents and OpenAI API. The system enables users to query financial data in natural language, fetch real-time stock metrics (e.g., P/E ratio, EPS, average volume), and compute technical indicators such as SMA, EMA, RSI, and MACD. Implemented custom tools for data retrieval, transformation, and visualization using yfinance and Matplotlib. Designed with a modular, agent-based architecture for scalable interaction and enhanced responsiveness. Demonstrated expertise in integrating LLMs into financial workflows to deliver actionable investment insights.
Technologies: Python, OpenAI SDK Agents, OpenAI API.
Git: https://github.com/JosephDaniel2810/investment-research-agent

Breast Cancer Classification

Built a machine learning model to classify breast cancer types with high accuracy using multiple classifiers, including Decision Trees, SVC, XGBoost, and Random Forest. Evaluated models using confusion matrices to validate accuracy and improve healthcare-related predictions.
Technologies: Python, MySQL, Tableau

Relief Haven

Developed a mobile application prototype using Figma for eco-conscious users to track and reduce their carbon footprint. Enhanced skills in UI/UX design and contributed to promoting environmental sustainability.
Technologies: Figma