KAVYANJALI THUNUGUNTLA

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ABOUT

Motivated and innovative software developer currently pursuing an Integrated M Tech in Computer Science at VIT. Skilled in Python, C/C++, JavaScript, and Unix/Linux environments. Experienced in data structures, algorithms, AI, and machine learning, with a proven track record of impactful Web and Mobile development projects.

EDUCATION

Vellore Institute of Technology   **Vellore, Tamil Nadu**
Integrated M-tech Computer Science (GPA: 8.8/10)   May 2026
Relevant Coursework - Operating systems, Artificial Intelligence, Problem Solving and Object-oriented Programming, Data Structures and Algorithms, Data Communication and Networking, Cloud Computing, Deep Learning, Block Chain Technologies.

SKILLS

- **Programming Languages:** Python, C++, C, SQL, Java.
- **Web Technologies:** HTML5, Css3, JavaScript (ES6), Express, React.js, Node.js, JSON, Redux, Flask, Figma, Bootstrap.
- **AI & ML Toolkit:** NumPy, Pandas, Keras, Data Mining, Scikit-learn, TensorFlow, Large Language models (LLM), API.
- **Interpersonal Skills:** Business Communication, Scalability, Critical Thinking, Problem-Solving, Leadership, Research.

WORK EXPERIENCE

Orblike Technologies | Software Developer Intern   **May 2023 – August 2023**
- Engaged in **Sprint** review meetings to demonstrate completed work and gather feedback from stakeholders.
- Designed and implemented the user interface using **HTML5, CSS3, JavaScript, Redux,** and **ReactJS**.
- Achieved a 20% reduction in **API** response time through query optimization, improving application efficiency.
- Participated in code reviews and contributed to continuous integration and deployment processes using **Git**.
- Administered **Unix/Linux** server tasks to facilitate smooth application deployment and configuration

ACADEMIC PROJECTS

DocuChat-Pro   **Jan 2024 – May 2024**
Developed innovative PDF chatbot using **Python, Lang Chain, ChatGPT API** for seamless interaction with multiple documents.
- Integrated **ChatGPT API** to harness **large language models (LLMs)** for boosting the chatbot's conversational capabilities.
- Utilized **Streamlit** to develop an intuitive interface, ensuring seamless document interaction for users.
- Integrated **Lang Chain** framework into the application, enabling data-awareness and agentic features.

Diabetes Prediction   **Aug 2023-Nov 2023**
Developed predictive diabetes model using logistic regression and Natural Language Processing for the web interface, enabling user-friendly health risk assessment and data-driven preventive measures.
- Utilized **Python** ML libraries such as **NumPy, Pandas**, and **Scikit-learn** for data manipulation, analysis, model building.
- Performed dataset splitting for training and testing, achieving 77.73% accuracy via cross-validation.
- Developed and implemented a predictive model for diabetes using **logistic regression**.
- Developed **Gradio** Product Offering a web interface for real-time diabetes risk predictions from health metrics.

Nirvana: Interactive Yoga & Fitness Platform   **March 2023 – August 2023**
Developed a JavaScript-powered yoga and fitness website with interactive classes, personalized plans, wellness tracking, and a community forum to promote holistic wellness and engage users effectively.
- Implemented intuitive and responsive front-end designs using **HTML**, **CSS**, and **JavaScript** frameworks, ensuring an optimal user experience across devices.
- Integrated **MySQL** backend for smooth user experience and secure data handling for both storage and retrieval of data.
- Conducted **Java**-based Automation testing using tools like **JUnit** to maintain data integrity and system reliability.
- Utilized Git for version control, facilitating collaboration and effective management of codebase.

Fake Production Identification   **Dec 2022 – March 2023**
Developed a blockchain-based system for real-time product authentication, preventing counterfeit goods, enhancing supply chain transparency, and safeguarding brand reputation and consumer safety.
- Implemented user-friendly QR code scanning for instant product authenticity verification using **ReactJS**.
- Implemented a blockchain-based **SCQL** framework to improve transparency and traceability in supply chain operations.
- Monitored and analyzed supply chain data using **Ethereum** ecosystem tools to detect and prevent fraudulent activities.

CERTIFICATIONS AND ACHIEVEMENTS

- Data Structures and algorithms with C on intern Shala.
- Data structures and algorithms specialization, Coursera.
- AI-900 Microsoft Certified: Azure AI Fundamentals
- Google AI Essentials

Leadership and Volunteer Experience

- Proposed new ideas, activities, or improvements to enhance the GDSC VIT club's impact and member experience.
- Collaborated with other GDSC VIT club members to contribute to projects, hackathons, or community-driven initiatives.
- In the last five years, I showcased leadership as a volunteer social worker at Art of Living, aiding those in need.