Shashank Pandey

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SUMMARY

Aspiring Software Engineer with a solid foundation in programming languages such as Python, Java, JavaScript, C++, and SQL. Proficient in full-stack web development, machine learning, and cloud computing, showcased through hands-on projects like facial recognition systems and heart attack prediction models. Driven by a passion for technology and equipped with strong problem-solving abilities, eager to contribute to innovative solutions in a dynamic software engineering role.

SKILLS

Next.js, React.js, Node.js, Express.js, Tailwind CSS, MongoDB, PostgreSQL, Firebase, AWS EC2, AWS S3, JWT, NextAuth.js, Arduino, Git, GitHub, Vercel, ESLint, Prettier, REST APIs, Java, C, C++, JavaScript, Python, HTML, CSS, SQL

PROJECTS

Face Detection Using Machine Learning   **Aug 2023 - Nov 2023**
Team Lead

- Designed and implemented a high-accuracy face detection system utilizing OpenCV and a Convolutional Neural Network (CNN), achieving a 92% precision rate in identifying and locating faces within images.
- Developed real-time detection capabilities and refined the model to minimize false positives, boosting overall performance by 15%.

Heart Attack Prediction Using Deep Learning   **Feb 2024 - May 2024**
Member

- Designed and implemented a deep learning model with advanced neural network architecture to accurately predict the risk of heart attacks using comprehensive patient data.
- Achieved 91% accuracy and an 85% F1 score through effective hyperparameter tuning and model optimization.
- Developed a user-friendly web application integrating the model for real-time predictions, enhancing accessibility and empowering healthcare professionals with improved decision-making capabilities.

Citizen ID System - Digital Identity Management Platform   **Jul 2024 - Feb 2025**
Team Lead

- Designed and implemented a robust full-stack web application featuring secure user registration, authentication, profile management, document storage, and online assessments, leveraging Next.js, Node.js, Express.js, and MongoDB/PostgreSQL.
- Implemented NextAuth.js and JWT to establish secure authentication and efficient session management, guaranteeing protected API access.
- Developed and integrated the DigiOne API to automate the retrieval of official documents and securely store them using Firebase and AWS S3.
- Developed dynamic features including a resume builder, online assessments, and dark mode using Tailwind CSS, Shadcn/UI, and Lucide-react icons.
- Deployed on Vercel, featuring clean and maintainable code, enhanced by ESLint and Prettier to ensure consistency and adhere to best practices.

EDUCATION

Vellore Institute of Technology Bhopal University   **Sep 2022 - Present**
B.Tech Computer Science and Engineering   *GPA: 8.23*

CERTIFICATIONS

AWS Solutions Architecture – Associate (ETHNUS)   **Jan 2025 – Apr 2025**
MERN Full Stack (ETHNUS)   **Jan 2025 – Apr 2025**
Cloud Computing (NPTEL)   **Jan 2024 – Apr 2024**
Market Analytics (NPTEL)   **Jan 2025 – Apr 2025**
JAVA   **Jul 2021 – Oct 2021**