J HEMANTH KUMAR

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Summary

Aspiring Software Engineer with knowledge of FinTech, Cybersecurity, and Machine Learning, skilled in business analysis, cloud development, and agile methodologies.

Education

VIT Bhopal University   **Expected Graduation : May 2026**
B.Tech in Computer Science and Engineering (spl.Cybersecurity)   *Bhopal, Madhya Pradesh*
CGPA : 9.21

Relevant Coursework

- Data Structures
- Software Engineering
- Artificial Intelligence
- Data Science
- Computer Networks
- Database Management
- Machine Learning
- MERN Development

Experience

Infosys Springboard   **Oct 2024 – Dec 2024**
AIML Intern

- Contributed to the design, development, and deployment of AI-driven enterprise technology solutions to optimize payments and business intelligence workflows for a financial institution.
- Accelerated data processing by 40% by implementing efficient **feature engineering** and **hyperparameter tuning**, reducing model training time from **6 hours to 3.5 hours**.
- Developed and deployed an AI-driven analytics pipeline that processed **1 million+ data points**, improving **insights generation speed by 50%** for key **stakeholders**.
- Integrated cloud-based solutions with data warehousing systems to scale machine learning workflows, reducing infrastructure costs by 20% while maintaining high-performance computing capabilities.

Projects

Home Loan Default Prediction Model | *Python, Google Cloud*   **Oct 2024 - Nov 2024**

- Designed and developed a FinTech machine learning model to predict home loan defaults, achieving 95% accuracy and 0.94 F1 score by utilizing Random Forest, Logistic Regression, and XGBoost models, optimized with GridSearchCV and cross-validation, enhancing risk evaluation processes.
- Conducted business analysis to identify key data patterns and engineered 10+ custom features based on client demographics, improving model precision by 15%.
- Reduced model training time by 30% through parallelization and feature selection, processing datasets of 100,000+ records on cloud development platforms.

Automated CI/CD Pipeline for Node.js using GitHub Actions , Docker   **Jan 2025 - Feb 2025**

- Automated the CI/CD pipeline using GitHub Actions for a Node.js app, enabling 3+ deployments per day and reducing manual deployment efforts.
- Containerized the application with Docker, ensuring consistent environments across all stages, cutting setup time for new developers to half.

File Sharing System | *Go lang, Postman, PostgreSQL*   **Mar 2025 - Apr 2025**

- Built a RESTful File Sharing System using Golang and PostgreSQL, enabling secure file uploads/downloads for up to 1,000+ users.
- Implemented user authentication and authorization with token-based access (JWT) to ensure secure file transactions.
- Designed and tested 15+ API endpoints using Postman, ensuring 99.9% success rate in functional, security, and edge case scenarios.

Technical Skills

Languages: Python, Java, C++, HTML/CSS, JavaScript, SQL
Developer Tools: VS Code, Eclipse, Google Analytics, Git, Jest, AWS, Redux, Oracle Cloud, MLflow, TensorBoard
Technologies/Frameworks: GitHub, WordPress, Docker, Flask, MongoDB, React, Node.js , Express.js, Machine Learning

Leadership / Extracurricular

- Led a team for Project Exhibition 1 and 2 in university, delivering projects on time and awarded S grade for innovation and execution.
- Mentored 15+ junior developers through weekly coding workshops, focusing on fundamental data structures and algorithms, resulting in a 40% improvement in participants' code efficiency scores on HackerRank.