KV CHAKRADHAR

Bengaluru, India

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Education

Indian Institute of Information Technology Kottayam **CGPA: 8.0**
Bachelor of Technology (Computer science engineering with Cybersecurity) *2021-2025*

Narayana Junior college **Percent: 97%**
Board of Intermediate of education *2019-2021*

Technical Skills

- **Languages:** Python, Go, Java, C++, JavaScript, SQL, R
- **Libraries:**FastAPI, Flask, Node.js, Express.js, React.js, TailwindCSS, GitHub Actions, Docker, AWS, PyTorch, TensorFlow, Keras, Scikit-learn, OpenCV
- **Platforms:** AWS, GCP, Azure, Git, GitHub, Linux (Ubuntu, Fedora, CoreOS, Amazon Linux)
- **Concepts:**REST APIs, WebSockets, Microservices, WebAssembly, CI/CD, Infrastructure as Code (Terraform), Browser Extensions, Cloud Security
- **Tools:**SQL Server, Oracle, Teradata, RDBMS tools

Relevant Coursework

- Computer Programming
- Probability and Time-series
- Linear Algebra
- Data science
- Statistics and calculus
- Information Theory and Coding
- Computer Networks
- Machine Learning

Projects

Deep face detection with AI integration | ***Python,Machine learning, FastAPI, Flask*** | ***Link*** **Jan 2025**

- Developed a web-based face detection application using TensorFlow, Keras, and OpenCV, integrating pre-trained **Resnetmodel** for real-time recognition by achieving **95% accuracy**
- Implemented a scalable REST API to handle real-time face detection requests, ensuring security, cross-browser compatibility, and mobile responsiveness.
- Currently exploring **segmentation techniques with SAM and building a custom defect detection dataset**.
- Followed **Applied version control and CI/CD pipelines using GitHub Actions.**
- **Developed REST APIs for real-time face detection, currently learning FastAPI for scalable Python-based API development**.

Lung Cancer Data Analysis | ***Python,Jupyter,Pandas*** | ***Link*** **December 2024**

- Led a comprehensive lung cancer data analysis project using **linear regression, Python, Jupyter Notebook, and Pandas**.
- Extracted critical insights and identified meaningful patterns and trends, **achieving 95% accuracy** in lung cancer detection through the developed model.
- Achieved 95% accuracy with metrics: F1 score, precision, recall..

Portfolio | ***React.js, TypeScript, TailwindCSS, Three.js*** | ***Link*** **Aug. 2023**

- Developed responsive UI components with React.js, enhancing user engagement.
- Implemented an interactive and visually appealing UI with **TailwindCSS**.
- Integrated **Three.js for 3D graphics**, enhancing user engagement.

Cloud client Side Encryption | ***AWS Cloud*** **Jan 2023**

- Proficiency in using **Amazon AWS cloud** infrastructure.
- Used **s3 bucket** to store encrypted documents.
- Utilized AWS S3 for encrypted document storage, demonstrating cloud service management.
- Implemented encryption algorithms with secure key handling, aligning with data protection best practices.

Achievements

* HackerEarth Machine Learning Challenge: World Water Day Ranked in the **Top 10 globally in a prestigious ML among 2500 + Participations hackathon**.(***View***)
* Secured 1st position in Decentra Hackathon among 500+ Participations.(***View***)
* Practical Workshop in Cybersecurity: **Learned About Vulnerabilities and Hacks**
* **GDSC Lead and Organizer in IIIK and successfully Conducted 10 + sessions**
* **Generative AI Workshop organizer In III K**
* Self-learner: Currently working on integrating VLMs (like CLIP) for visual-text understanding in robotics datasets..