

Nagiripati Chakradhar Varma

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GitHub: <https://github.com/Chakradhar-varma> | Portfolio: <https://itschakradharvarma.vercel.app/>

CARRER OBJECTIVE

A highly motivated and recent B. Tech graduate in Computer Science Engineering with a strong foundation in database management. Skilled in Python, and SQL, with hands-on experience in web development. seeking an entry-level position software development role to apply theoretical knowledge gained through academic projects, eager to contribute to innovative projects within a collaborative team environment while actively learning and developing new skills in the field of technology.

EDUCATION

Indian Institute of Information Technology Kottayam, Kerala **2020 – 2024**
Bachelor of Technology (B. Tech) in Computer Science Engineering (CSE)
CGPA: 6.14

Narayana Junior College **2018 – 2020**
Intermediate_MPC
CGPA: 7.84

Sri Chaitanya E.M High School **2017 – 2018**
Secondary School of Certificate
CGPA: 7.3

SKILLS

Programming Languages: Python, SQL
Web Development: HTML, CSS, JavaScript
Libraries: TensorFlow, Scikit-learn, NumPy, Matplotlib
Database: MySQL, SQLite
Tools: Docker, Github, VS Code, Sublime Text
Platforms: Linux (ubuntu), Windows, AWS, Jupyter Notebook
Other Skills: MS Office, Good Communication Skills, Analytical Skills

PROJECTS

Pedestrian Motion Prediction with Enhanced EqMotion Model - B.Tech Final Year Project

- Developed a pedestrian motion prediction system using the EqMotion model and Conditional Variational AutoEncoder (CVAE) for enhanced accuracy and robustness.
- Ensured agent interaction invariance and motion equivariance under Euclidean transformations.
- Implemented equivariant geometric and invariant pattern feature learning for precise trajectory predictions.
- Outperformed state-of-the-art models (LSTM, S-LSTM, SGAN, SGC-LSTM) with superior accuracy.
- **Performance Metrics:**
 - **ADE (Average Displacement Error):** 0.40 (ETH-univ), 0.23 (UCY-univ)
 - **FDE (Final Displacement Error):** 0.60 (ETH-univ), 0.41 (UCY-univ)
- **Applications:** Pedestrian trajectory prediction, particle dynamics, molecule dynamics, and human skeleton motion prediction.
- Leveraged CVAE to enhance model generalization by generating diverse input scenarios.

Personal Portfolio Website

Designed and developed a personal portfolio website to showcase my skills and accomplishments in web development.

- Developed a personal portfolio website which is dynamic and visually appealing online showcase of my work and kills. It boasts a responsive design that adapts seamlessly to different devices and screen sizes. The website features an innovative contact form that's connected to Google Sheets, making it easy for visitors to reach out to me.
- To enhance user experience, my website includes both dark and light modes, allowing users to choose their preferred viewing option. The addition of Typed.js adds a touch of interactivity by creating animated typing effects, while Scroll Reveal ensures a captivating scrolling experience by gradually revealing content as users navigate through the site.
- Overall, my portfolio website is a well-crafted blend of technology and design, highlighting my skills and creativity in a memorable way.

Technologies: HTML, CSS, JavaScript

Link: <https://itschakradharvarma.vercel.app/>

Image Editor Using JavaScript

Developed a web-based image editor using HTML, CSS, and JavaScript for an intuitive and user-friendly experience.

- Implemented key features such as image upload, filter application, rotation, flipping, and saving of edited images.
- Designed a visually appealing and lightweight interface to enhance usability.
- Optimized for performance and seamless interaction in web-based applications.

Technical Skills: HTML, CSS, JavaScript.

Link: <https://image-editor-chakri.vercel.app/>

Closest Celeb Match – Facial Recognition System

Developed a deep learning-based facial recognition system to match faces with Bollywood celebrities.

- Implemented Siamese networks trained on a dataset of Bollywood actors' images for precise facial similarity detection.
- Utilized deep learning feature extraction and comparison techniques to enhance recognition accuracy.
- Achieved a 97% accuracy rate, demonstrating high proficiency in face matching.

Technical Skills: Python, PyTorch, OpenCV, Scikit-learn, FaceNet Libraries.

PARTICIPATIONS

- Participated in a GFG Data Structures & Algorithms (DSA) quiz organized by IIIT Kottayam.
- Participated in IP Awareness/Training under the National Intellectual Property Awareness Mission (NIPAM) on January 27, 2022.
- Participated in the Digital Hackathon, showcasing problem-solving and technical skills in a competitive environment on September 12, 2021.

CERTIFICATIONS

- **The Data Science Course: Complete Data Science Bootcamp 2024 by Udemy**
- **Python for Data Science and Machine Learning Bootcamp by Udemy**
- **The Complete Full-Stack Web Development Bootcamp by Udemy**

EXTRA – CURRICULAR ACTIVITIES

Accenture UK Developer and Technology Virtual Experience Programme on Forage - March 2025

- Completed the Developer and Technology Job Simulation where I developed an end to end understanding of the Software Development Lifecycle.
- Conducted in-depth research into emerging technology trends, particularly in the field of DevOps, demonstrating a proactive approach to staying informed about the rapidly evolving tech landscape.
- Created and delivered a compelling PowerPoint presentation analysing and comparing Waterfall and Agile methodologies.
- Designed a custom algorithm using pseudocode and effectively communicated its logic by creating a detailed flow diagram.
- Debugged a program written in Python by fixing syntax and logic errors in the code.

Accenture North America Data Analytics and Visualization Job Simulation on Forage - March 2025

- Completed a simulation focused on advising a hypothetical social media client as a Data Analyst at Accenture
- Cleaned, modelled and analyzed 7 datasets to uncover insights into content trends to inform strategic decisions
- Prepared a PowerPoint deck and video presentation to communicate key insights for the client and internal stakeholders

STRENGTHS

- Ability to maintain good relationship & Team work.
- Possess the self-motivation, self-confidence & hardworking nature.
- Curious to know new things.
- For development adopting new things.
- Patience.

HOBBIES

- Listening Music
- Watching Movies
- Volunteering

LANGUAGES KNOWN

- English
- Hindi
- Telugu

SELF DECLARATION

I hereby declare that the given information is true about my education and skills.