SOUSHEEL REDDY LACHAGARI

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EDUCATION

- **RUTGERS UNIVERSITY** -**New Brunswick**   NEW JERSEY, USA
  Masters in Computer Science   *September 2025 - 2027*
- **Chaitanya Bharathi Institute of Technology (CBIT)**   Hyderabad, India
  Bachelor of Engineering in Computer Science -Artificial Intelligence and Data Science   *December 2021 - March 2025*
  - **CGPA**: 8.5/10
  - **Relevant Coursework**: Python ,Java,C, Data Structures and Algorithms, Database Management Systems,Operating Systems, Machine Learning, HTML, CSS, JavaScript, Node.js, React.js, MongoDB, Express.js

SKILLS SUMMARY

- **Languages:** Java, JavaScript, SQL, Python,R
- **Frameworks:** TensorFlow, Express, React
- **Libraries:** Scikit-learn, Pandas, Numpy, Matplotlib
- **Tools:** GIT, GitHub
- **Databases:** MongoDB , MySQL
- **Soft Skills:** Problem solving, Adaptability, Active listening, Critical thinking

PROJECTS

- **Online Gate Pass Management System**
  * The Gate Pass Management System is a web application built using the MERN stack **MongoDB, Express.js, React.js, Node.js** with **WebSocket** integration for real-time updates. This system streamlines the process of requesting and approving gate passes, enhancing efficiency and communication between users and higher authorities like Heads of Departments (HODs).
- **Stock Price Prediction Using Machine Learning**
  * Developed a machine learning project focused on predicting stock prices, utilizing various algorithms and techniques.**Automated the entire process**, including **data ingestion, transformation, training, and prediction pipelines**.
  * Designed an interactive **web interface using Flask**. Integrated robust **logging and exception handling** mechanisms for effective debugging and error management.
- **Car Rental System**
  * Developed a comprehensive **Car Rental System** using **Object-Oriented Programming** (OOP) concepts in **Python**. The system includes features such as vehicle booking, customer management, and payment processing. Implemented **encapsulation, inheritance, and polymorphism** to ensure a modular and maintainable codebase. Available at: Car Rentals
- **Burglary detection system using Deeplearning**
  * Developed a Multipipeline model **Theft detection System** using **Deep learning models** like RetinexNet and Yolo V8 that use real time surveillance footage and identify robberies and possible theft and send alerts to the users.With the help of this fast and effective deep learning model, we were able to tackle the real-time problem of theft detection using existing surveillance cameras, without the need for costly upgrades to modern systems. T,his approach proves to be both efficient and cost-effective.

CO-CURRICULAR AND EXTRA-CURRICULAR ACTIVITIES

- Engaged in **Ideathon** organized by ACIC-CBIT in Jan-2022 and was in top 5.
- Contributed to **Hacktober Hackathon Fest-2023** organized by COSC, CBIT
- Held a position of **Cordinator** for AIDS for CBIT FEST 2024.and played a lead role in managing and planning all the activities that took place in the fest.
- Was in the top 10 for 2024 CBIT state wide Hacktober-Hackathon.

Certifications

- **Data science:** Completed a Data science course from Infosys spring board .
- **Web Development:** Completed Web Development Course on Ed spread.
- **Machine Learning and Deep learning:** Studied Machine learning principles and practices via an Coursera course.
- **Artificial Intelligence** Studied and practiced via an Coursera course.
- **AWS Cloud practitioner certification** Ongoig

Work experience and Internships

- **ZignaAI SDE Intern - December 2024 – June 2025**: In my final year of undergraduate studies, I had the opportunity to work with ZignaAI, an AI-based startup company. During my internship at Zigna, I contributed to the development of AI-powered solutions that enhance healthcare payment accuracy and transparency. I assisted in improving machine learning algorithms for billing automation and payment issue resolution. I supported the RightPx app, helping consumers shop for the best healthcare prices. I collaborated with cross-functional teams to optimize payment systems for Medicaid, Medicare, and commercial policies. This experience strengthened my skills in AI, data analysis, healthcare systems, and collaboration.
- **Mathlab May 2024 – October 2024 :**As an undergraduate junior i have completed a virtual internship in mathlab on fundamentals of Machine learning . Gained a solid understanding of core machine learning concepts, including supervised and unsupervised learning techniques.Developed hands-on experience with implementing basic models using MATLAB.
- **Ed spread: November 2022 – January 2023** Completed full stack development training cum internship from Ed spread . Contributed to building web-based applications using technologies like HTML, CSS, JavaScript, and backend frameworks.Collaborated with a team to design and deploy end-to-end features in a live project.

Papers and Publications

- **Burglary Detection System Using Deep Learning Techniques for Low-Light Conditions** Accepted and submited for International conferenec on innovative computing technologies

Additional Information

Myportfolio