

# Sandeep Pula

Linked-in: <https://www.linkedin.com/in/sandeep-pula-9b078b185>

Mail: [sandeepmula@outlook.com](mailto:sandeepmula@outlook.com)

Phone: +1 (341) 204-5933

---

## Skills:

- Enterprise Resource Planning (ERP): SAP Business warehouse, SAP Hana
- Programming skills: Python, Java, C Language, RPC server programming, UDP socket programming.
- Web Development: Html 5 with CSS, Google sites, Django, Wordpress, Spring boot, Angular
- Database: SQL, Oracle database 23ai, Mongo DB
- Web scraping, Beautiful soup, Selenium
- Cloud: SAP Analytics Cloud (SAC), IBM Watson studio, Google Cloud Platform (GCP)
- Security tools: Burpsuit, Metasploit, Wireshark
- Others: Object oriented programming concepts, Data structure, Kafka, Kubernetes.

## Experience:

### Web developer, (Oct 2024 to till date) — Cleveland State University.

As a full stack web developer I volunteered to help professors of CSU to build their official webpage and hosted under CSU servers. Dealing with Angular and JS combination with GCP, I gained a professional knowledge on exploring web development.

### Research Assistant, (Sept-2023 to till date) — Cleveland State University.

Project A: The research explores a new approach called “Bidirectional Penalty-based Approach for Reinforcement Learning Algorithms.” It aims to develop new derived algorithms to improve autonomous scientific labs in the Department of Energy, USA. The focus is on a penalty-based reward function that can enhance any existing algorithm, improving performance and success rates.

Project B (Ongoing): The research involves the implementation of a Bidirectional Penalty-Based Reinforcement Learning (RL) algorithm utilizing the Opentrons dataset, alongside the practical application of this algorithm in training a physical robotic system to perform industrial tasks. The primary objective of this study is to investigate and analyze the behavioral responses of the physical robot in relation to the proposed approach, with a focus on evaluating its efficacy in real-world scenarios.

Using Baxter robot, implementing bi-directional penalty based RL algorithm and generating a benchmark dataset which can be used for industrial purpose.

Project C (Ongoing): Intercommunication Among AI Tools: Despite the presence of advanced AI tools such as ChatGPT, Gemini AI, Claude AI, and Meta AI, we continue to face the challenge that none of these tools are fully optimal (for instance, asking ChatGPT for an image of a peeled and sliced apple with honey on the side). The aim of this project is to improve the optimality of these tools by integrating a wide range of AI technologies.

**Data Analyst for Remodel AI (May 2024 to August 2024):** Remodel AI is a SAAS based startup which aims to provide AI employees. I am worked on the data prediction of how well leads are doing throughout lead journey and generating report which includes sentiment analysis and fields where campaigns are run. And I also worked with the web-designing part using GCP and Kubernetes.

**SAP-Germany consultant, (July-2021 to December 2022) — Tata Consultancy Services.**

I provided my services to in-house SAP Germany on Financial master data, Hana core components, corporate real estate management and more along with my colleagues. During Covid-19 pandemic, all the employees of SAP used to work in hybrid working model and WFH, SAP employee's clock-in and clock-out data related models were trained by our team. And I played a crucial role in developing workflow and data pipeline through out the SAC (SAP analytics cloud).

**B-tech Final Year Project: Solely Automated Results Analysis System.**

In practice, a person was helping to collect semester results by physically entering hall ticket numbers of every student in my college website and preparing an excel sheet with results and its basic math calculation. So, we (team of 4) under the guidance of our department Head (HOD) worked on this issue and produced an automation-based solution integrating with sentiment analysis of students, and results analysis from subject wise to departmental wise.

**Participations:**

- Artificial Intelligence enabled recruiter bot. (IBM Hackathon, 2020)
- Linked-in profile analyses (automation based). (IBM Hackathon 2020)
- Resume analyzer. (IBM Hackathon 2020)

**Education:**

**Masters in computer science (Jan 2023 – Dec 2024)** at Cleveland State University with an aggregate of **3.63 GPA**

**Bachelor of technology in Computer Science and Engineering** at Gates Institute of Technology (JNTUA affiliated), India (2017-2021) with **7.74 CGPA**.