

# Sandeep Pula

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## Skills:

- Enterprise Resource Planning (ERP): SAP Business warehouse, SAP Hana
- Programming skills: Python, Java Script, C Language, C#, RPC server programming, UDP socket programming.
- Web Development: Html 5 with CSS, Google sites, Django, Wordpress, Spring boot, Angular, React.
- Database: SQL, Oracle database 23ai, Azure sql, 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: Power BI, Tableau, Object-oriented programming concepts, Data structure, Kafka, Kubernetes,

## Experience:

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

- Volunteered as a Full Stack Web Developer to assist professors at CSU in building their official webpages, hosted on CSU servers.
- Utilized a combination of Angular and React with GCP to design and develop responsive and functional web applications.
- Gained professional knowledge and hands-on experience in web development through the project.

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

Project A: Explored a novel "Bidirectional Penalty-based Approach for Reinforcement Learning Algorithms" to enhance algorithm performance.

- Developed derived algorithms aimed at improving autonomous operations in scientific laboratories under the Department of Energy, USA.
- Focused on integrating a penalty-based reward function to boost success rates and optimize existing reinforcement learning algorithms.

Project B: 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.

Project C (Ongoing): Implementing a Bidirectional Penalty-Based Reinforcement Learning (RL) algorithm using the OpenTrons dataset to train a physical robotic system for industrial tasks.

- Investigating the behavioral responses of the Baxter robot to the proposed approach, analyzing its efficacy in real-world scenarios.
- Trying to generate a benchmark dataset through the Baxter robot's implementation, contributing to industrial applications and future research.

**Data Analyst for Remodel AI (May 2024 to August 2024):** Remodel AI is a SAAS based startup which aims to provide AI employees. I volunteered on the data prediction microservice 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.**

- Provided services to in-house SAP Germany on Financial Master Data, HANA core components, and Corporate Real Estate Management.
- Contributed to training models for SAP employee clock-in and clock-out data during the Covid-19 hybrid work model.
- Played a crucial role in developing workflows and data pipelines within SAP Analytics Cloud (SAC).

**Business Data Analyst (Mar-2018 to Aug-2021) at VGA & Co., —**

As a Data Analyst at VGA & Co., I developed and maintained financial reports using Power BI, delivering actionable insights that supported decision-making for local businesses. I analyzed large datasets, ensuring data accuracy and integrity, while transforming raw financial data into meaningful and interactive visualizations. By automating data processing workflows, I significantly reduced manual efforts, enhancing efficiency in financial reporting processes. Additionally, I conducted in-depth analyses to identify trends, anomalies, and key financial performance indicators, contributing to strategic planning and improved financial decision-making for clients.

**B-tech Final Year Project (Aug-2020 to June-2021) — 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 (a 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**.