

Sandeep Pula



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Visit sandeepula.info or scan the QR code for a more detailed portfolio.

Skills:

Category	Technologies and Tools
Enterprise Resource Planning (ERP)	SAP BW/BI, SAP S/4Hana, ABAP
Programming Languages	Python, Java, JavaScript, C, C++, C#
System & Network Programming	RPC Server Programming, UDP Socket Programming
Web Development	HTML5 with CSS, Google Sites, Django, WordPress, Spring Boot, Angular, React, JavaScript
Databases	SQL, PL SQL, Oracle Database 19c, Azure SQL, MongoDB
Web Scraping	Beautiful Soup, Selenium
Cloud Platforms & Services	SAP Analytics Cloud (SAC), IBM Watson Studio, Google Cloud Platform (GCP)
Data Analytics & Visualization	Power BI, Tableau, Data Science, Data Visualization
Machine Learning & AI	Active Learning, Machine Learning, Algorithm Development, Reinforcement Learning
DevOps & CI/CD	Docker, Kubernetes, Kafka, CI/CD, Git
API	OpenAI API
Other Skills	Problem Identification, Troubleshooting, CRM, Object-Oriented Programming Concepts, Mathematics, Data Structures

Experience:

Research Assistant, (Sept-2023 to Dec-2024) – Cleveland State University.

- Developed a novel bidirectional penalty-based reinforcement learning algorithm to improve algorithm performance.
- Improved performance, success rate and resilience in PPO, SAC, RLPD, RFCL, TDMPC2 algorithms using bidirectional penalty based approach.
- Learned and implemented how to enhance existing RL algorithms by leveraged university-

provided GPUs to accelerate RL model training and optimize performance. And Maniskill, which is a benchmark for the advanced utilization of RL algorithms with robotic simulation tasks.

- Applied advanced RL techniques to optimize decision-making and policy learning.
- Fine-tuned learning rates, reward structures, and policy constraints to achieve higher efficiency in RL models.
- Analyzed training logs, success rates, and policy behaviors to compare baseline vs. improved models.

Skills gained: OpenAI Gym, MuJoCo, and CARLA Simulator, problem solving, GPU computing, robotic simulation tools, deep RL algorithms, hyperparameter tuning & optimization.

Data Analyst for Remodel AI (May 2024 to August 2024):

- Contributed to the data prediction microservice, analyzing lead performance throughout the lead journey.
- Designed a report generation system incorporating sentiment analysis and tracking campaign effectiveness.
- Developed predictive analytics models to enhance lead conversion insights.
- Implemented scalable AI-driven solutions to optimize SaaS-based AI employee performance.

Skills gained: Machine learning, predictive analysis, sentiment analysis, pipeline designing, data engineering, web development, web scraping, AI with business insights.

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

- Provided financial master data support and expertise on HANA core components and Corporate Real Estate Management (CREM).
- Contributed to machine learning models for analyzing SAP employee clock-in and clock-out data, optimizing hybrid work policies during COVID-19.
- Designed and optimized workflows and data pipelines within SAP Analytics Cloud (SAC) to improve business intelligence and reporting.
- I became an essential resource for the SAC services offered by our team and actively participated in the Knowledge Transfer (KT) process. This involvement ensures that new team members have access to my recorded KT presentations for reference and training.

Skills gained: CREM data analysis, SAP Hana, SAC, SAP BW/BI, workforce optimization, SAP process chains development, ABAP, automation and workflow optimization.

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

- Developed and maintained financial reports using Power BI, providing actionable insights for local businesses.
- Analyzed large datasets, ensuring data accuracy and integrity, and transformed raw financial data into interactive visualizations.
- Automated data processing workflows, reducing manual effort and improving reporting efficiency.
- Conducted in-depth financial analyses to identify trends, anomalies, and key performance indicators (KPIs) for strategic decision-making.
- Contributed to financial planning and forecasting by providing data-driven insights to support business growth.

Skills gained: Power BI & data visualization, data analytics and interpretation, tableau, SQL & Data Integrity Management.

B-tech Final Year Project (Aug-2020 to June-2021) — Solely Automated Results Analysis System.

- Developed an automated system to streamline student result collection, replacing manual hall ticket entry with an efficient data extraction process.
- Collaborated in a team of four, under the guidance of the Head of Department (HOD), to design and implement the solution.
- Integrated sentiment analysis, analyzing students' feedback on academic performance and results.
- Built analytical reports covering subject-wise and department-wide performance trends for data-driven insights.
- Enhanced efficiency by automating data collection and calculations, eliminating manual errors and saving processing time.

Skills gained: Web scraping & automation, data processing & analysis, sentiment analysis, MSExcel & data visualization.

Education:

Degree (Computer Science)	Institution	Year	GPA / CGPA
Masters	Cleveland State University, USA	Jan 2023 – Dec 2024	3.63 GPA
Bachelors	Gates Institute of Technology (JNTUA), India	2017 – 2021	7.74 CGPA