

PACHIPULUSU VENKATA SAI RATNA NEERAJ

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EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY MADRAS
Bachelor of Science in Data Science and Programming
Cumulative GPA: 6.24/10.0

Chennai, TN
Sept 2021 – August 2026

ANDHRA UNIVERSITY
Bachelor of Technology in Computer Science Engineering
Cumulative GPA: 8.37/10.0

Visakhapatnam, AP
Dec 2020 – April 2024

TECHNICAL SKILLS

Languages: Python, R, SQL.

Data Science & ML: Pandas, NumPy, Scikit-Learn, NLP, TimeSeries Forecasting, ETL, MLOps.

GenAI: Prompt Engg, ReAct, MCP, RAG Pipeline, VectorDB, LangChain, LangGraph, LLaMA, FastAPI, HuggingFace

Cloud & DevOps: Google Cloud (GCP), Git.

WORK EXPERIENCE

Cognizant Technology Solutions

Programmer Analyst | Jr. AI Engineer

Hyderabad, TS

November 2024 – Present

- Working on implementation of an **AI-assisted Oracle → PostgreSQL** migration initiative on **GCP** for a **BFSI** client, combining **deterministic migration services (DMS/Datastream)** with **Agentic AI workflows** to handle **complex logic conversion, schema normalization, and large-scale data validation**, significantly reducing **manual rework** and **post-migration defects**. [GCP, DMS, Datastream, Gemini (LLM)]
- Delivered an **Agentic AI-powered Document Intelligence PoC** for **BFSI** client, that reduces **HITL** from 80% to 30% in data ingestion, parsing, classification and field extraction of mortgage & financial documents, enabling faster downstream **risk and valuation workflows** using Agentic AI workflows. [GCP, LangGraph, CoT, Prompt Augg]
- Contributed to **Data Warehouse Migration** for a **BFSI Investment Banking client**, designing & executing **ETL pipelines** using **Informatica IICS** on **GCP**, with built-in **data validation and performance checks** to ensure **PnL-critical data integrity** in an **Agile environment** tracked via **Jira**.

Programmer Analyst Trainee | Machine Learning Trainee

- Trained in Machine Learning, Deep Learning, NLP, followed by deployment of predictive models in Vertex AI to manage the entire MLOps lifecycle, from data ingestion and model training to scalable deployment and continuous monitoring.

National Institute of Urban Management, Hyderabad

Fullstack Developer Intern

Hyderabad, TS

Jun 2023 – Aug 2023

- Developed and deployed a Web-GIS platform using OpenLayers, GeoServer, and PostGIS on AWS, improving scalability by 40% and reducing infrastructure costs by 25%, contributing to more efficient urban planning.

Fluentgrid Limited

Software Engineering Intern

Visakhapatnam, AP

Jan 2023 – Feb 2023

- Streamlined operations for Uttar Pradesh's power corp by developing features for activity management platform, achieving 30% increase in workflow efficiency & 28% reduction in resource allocation time using JavaScript, jQuery, & Jasper reports.

PROJECTS

Financial News Analysis Agent: Multi-Agent AI System for Investment Intelligence | Agentic AI, Finance

- Built a multi-agent AI platform for automated financial news analysis using Google Gemini, **LangGraph**, and Streamlit, for **sentiment analysis**, market impact assessment, and **risk identification** to generate investment recommendations with **confidence scoring** and real-time analytics dashboard.

AI-Powered Text-to-SQL RAG Chatbot: Natural Language Database Intelligence | RAG, SQL, DataOps

- Developed an intelligent interface for non-technical stakeholders to query **MySQL** databases using natural language. Built a specialized **Retrieval-Augmented Generation (RAG)** pipeline to perform semantic schema mapping, utilizing **LangChain SQL Agents** and **self-correction loops** to generate and validate executable SQL queries with **90+** accuracy.

MedBlockAI: AI & Blockchain Healthcare Management System | GenAI, Web3, Healthcare

- I've built an AI-driven E-healthcare system integrating blockchain for secure data management, utilizing Ganache, Solidity, Truffle Suite, Meta Mask, Ethereum blockchain, and IPFS. Used AI analytics with Python, Gemini 1.0 Pro to predict health risks based on conditions and lab reports.

CERTIFICATIONS

1. Google Machine Learning Engineer Professional, 2. Azure AI Engineer Associate. 3. Responsible & Safe AI Systems [NPTEL]
4. Securiti AI: AI Governance & Risk Certification Training* 5. CAPM® Certification PMI*

ACTIVITIES

Responsible AI Champion - [Cognizant]

Nov 2025 – Present

- Driving **Responsible AI governance** initiatives focused on model **risk management**, and **regulatory compliance**, collaborating with leadership and cross-functional teams to promote ethical and compliant adoption of AI systems within enterprise environments. **[AI Risk Assessment, EU AI Act, NIST AI RMF]**

Google Cloud Jams Facilitator - [Google Cloud Community]

Sep 2023 – Aug 2024

- Guided more than 150+ cloud aspirants in Google Cloud Computing and generative AI paths via Google Cloud Jams program.