

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: 6.17/10.0

Chennai, TN

May 2021 – Dec 2025

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, SQL Scikit-Learn, NLP, Deep Learning, MLOps.

GenAI: Prompt Engineering, RAG Pipeline, Agentic AI, Langchain, LangGraph, FAISS, LLaMA, Gemini, LLMs.

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

WORK EXPERIENCE

Cognizant Technology Solutions

Programmer Analyst Trainee (Machine Learning)

Hyderabad, TS

November 2024 – Present

- 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.
- Prototyped enterprise grade Gen AI solutions using RAG architecture, LLMs, and Agentic AI workflows; currently developing 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.

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:

- 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.

Webpage QA Agent: RAG-Based AI for Contextual Question Answering

- Built a lightweight RAG pipeline using LangChain, FAISS, and OpenAI to answer user queries based on live webpage content. The system embeds and retrieves relevant text chunks, then uses GPT-3.5-Turbo with custom prompting to generate accurate, context-aware responses.

MedBlockAI: AI & Blockchain Healthcare Management System

- 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. AI for Economics [NPTEL].

ACTIVITIES

Responsible AI Champion - [Cognizant]

June 2025 – Present

- Serving as Responsible AI (RAI) Champion to drive a strategic, corporate-wide initiative in coordinating with the executive leadership team in promoting ethical AI governance, risk management, and regulatory compliance.

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..