

NAGA PRAVEEN YALLA

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Data Scientist | AI Developer | Data Analyst

PROFESSIONAL SUMMARY

Data Scientist and AI Developer with expertise in Machine Learning, Data Analytics, and AI Systems Design. Skilled in building scalable platforms like Nexus AI and data-driven solutions that deliver actionable business insights. Proficient in Python, ML frameworks (Scikit-learn, TensorFlow, PyTorch), and data visualization tools. Experienced in working with large datasets, distributed systems, and cloud deployment. Strong communicator with a track record of impactful projects in AI, smart energy systems, and data science applications.

TECHNICAL SKILLS

Programming Languages: Python, Java, C

Machine Learning & AI: Scikit-learn, TensorFlow, PyTorch, Hugging Face, NLP, Deep Learning, Generative AI

Data Science Tools: Pandas, NumPy, SciPy, Matplotlib, Seaborn, SQL, Power BI, Tableau

Big Data & Cloud: Spark, Hadoop, AWS, GCP, Azure

Frameworks/Tools: Git, Visual Studio Code, FastAPI, LangChain

Concepts: OOPS, DSA, Distributed Computing, Full Stack Development

Soft Skills: Problem-solving, Communication, Adaptability, Collaboration

CERTIFICATIONS

- Data Analytics Internship – ExcelR Edtech Pvt. Ltd. (July 2024)
- Tata Group – Data Visualisation: Empowering Business with Effective Insights

PROFESSIONAL EXPERIENCE

Software Intern – Gmee Solar Industries

- Created data automation scripts and simulated IoT data pipelines
- Delivered actionable insights to optimize solar energy deployments
- Developed Python-based tools for real-time data processing and visualization
- Analyzed sensor data to detect anomalies and forecast solar panel efficiency

PROJECTS

Nexus AI – Advanced AI Creation

- Designed and developed a conversational AI assistant with real-time reasoning, multi-modal inputs, and memory
- Integrated Large Language Models (LLMs) like Gemini, GPT, Claude for natural language processing
- Implemented secure APIs, authentication, and scalable backend (FastAPI + Python)
- Features: context-aware chat, real-time knowledge retrieval, self-learning pipeline
- Deployed on Google Cloud with CI/CD pipelines for scalability

Arsenal AI – Advanced AI Assistant Platform

- Developed a production-grade AI assistant inspired by Grok and ChatGPT
- Real-time web search, context-aware chat, conversation history, and export options
- Built using React 18, TypeScript, Tailwind CSS, Supabase, Framer Motion

ChartAI – Secure Anonymous Communication Platform

- Built a Discord-inspired secure messaging and voice chat platform
- Focused on privacy, encryption, and AI integration (OpenAI, Claude, Gemini, Cohere)
- Added speech-to-text and text-to-speech features

Solar Energy Data Analysis System

- Built a performance monitoring system using Python and Pandas
- Analyzed solar panel data for inefficiencies and optimizations
- Created real-time dashboards using visualization tools

Smart Grid System Simulation

- Simulated distributed smart grid with renewable sources
- Integrated ML logic to manage dynamic loads and optimize distribution
- Applied knowledge of energy systems and network protocols

ACHIEVEMENTS

- Awarded in inter-college programming contests
- Participated in sustainable-tech focused hackathons
- Led awareness initiatives on energy sustainability

EXTRACURRICULAR ACTIVITIES

- Tech Club Member: Involved in workshops and team coding sessions
- NSS Volunteer: Promoted tech-for-good and environmental responsibility
- Sports: Cricket & Football – developed teamwork and leadership

EDUCATIONAL QUALIFICATION

B.Tech in Computer Science and Engineering – NRI Institute Of Technology, Guntur (JNTU), 2025

PERSONAL DETAILS

Correspondence: Guntur, Andhra Pradesh, India

Phone: +91 8328377820

Date of Birth: 06/12/2003

Marital Status: Single

Languages Known: English, Hindi, Telugu

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