

NANDIGAM AKSHAY

[in LinkedIn](#) | [+91 9014901546](#) | [Leetcode](#) | [akshaync17@gmail.com](#) | [GitHub](#)

Summary

Aspiring AI Researcher and Application Developer with hands-on expertise in building **real-world AI-powered** applications, including **chatbots**, **CV**, and **ML** projects. Strong foundation in **full-stack development** with a growing portfolio in **GPT Models**, **vector embeddings**, and **LLM-based solutions**. Passionate about driving innovation through **AI for social and enterprise impact**.

Skills

- **Languages & Web:** Python | C | C# | SQL | ASP.NET Core | JavaScript | HTML 5 | CSS 3
- **Frameworks & Tools:** ASP.NET Core | Flask | React | TensorFlow | Git | VS Code
- **AI/ML & DeepLearning:** GPT Models | LLMs | Transformers | CNNs | Computer Vision | Vector Embeddings | Neural Networks
- **Development & DevOps:** REST APIs | My SQL | SQLite | Web Crawling | RAG Pipelines
- **Core Concepts:** Object-Oriented Programming (OOP) | Data Structures & Algorithms (DSA) | Problem Solving

Experience

- | | | | |
|---|--|------------------|--------------------------|
| Hackathon | Pragati AI for Impact -The/Nudge Institute + Meta | <i>Virtual</i> | 04/2023 - Present |
| <ul style="list-style-type: none">• Leading the team in Agriverse AI, an AI-powered solution addressing rural agricultural challenges• Designed the architecture for a Virtual Farm Twin to simulate farm conditions and monitor soil, crop, and irrigation patterns• Built and tested Agri Copilot, a multilingual AI assistant offering personalized farming support via voice/text interfaces• Drafted an Agri Intelligence Grid dashboard integrating weather, satellite, and market data to forecast crop risks and embed finance + insurance modules for low-bandwidth usage | | | |
| Hackathon | Nasa Space Apps Challenge | <i>Hyderabad</i> | 06/2023 - 06/2023 |
| <ul style="list-style-type: none">• Led a 4-member team to build a satellite data visualization platform using React and Python, integrating real-time NASA Earth data and achieving a Top 5 rank among 30+ teams for technical innovation.• Trained ML models (TensorFlow) to predict climate patterns with improved accuracy, and implemented WebSocket + Plotly for dynamic satellite imagery updates. | | | |

Education

- | | | | |
|---|---|------------------|--------------------------|
| Bachelor of Technology | VNR Vignana Jyothi Institute of Engineering and Technology | <i>Hyderabad</i> | 09/2020 - 09/2024 |
| <ul style="list-style-type: none">• Major in Electrical and Electronics Engineering | | | |

Projects

AI Disaster Management and Response System (*Enterprise-level application development*)

- Built an **enterprise-level MVP application** for real-time disaster predictions, emergency alerts, and community safety, significant enhancing **preparedness by 70%**.
- Built interactive **features** like posts, reels, stories, group chats, and community tools using **React**, **ASP.NET Core**, and **Django**, creating a user-centric platform for communication and collaboration.
- Integrated **AI/ML and Deep Learning models** to analyze climate data and automate alerts for 2k+ simulated users.
- Developed a platform for **community formation**, enabling users to form groups, share updates, and discuss real-time disaster situation in their areas.

AI Chatbot + Voice Assistant for Pronix Inc. using Kore.ai (*Enterprise-level application development*)

- Developed an **AI-powered chatbot and voice assistant** using **Kore.ai**, integrated with the **XO GPT model** trained on business-level queries
- Leveraged **web crawling** and **vector embeddings** to construct a dynamic, context-aware **knowledge base**
- Delivered a seamless, scalable conversational experience simulating **enterprise-level customer engagement**

Image Classification using CNNs (*Research-Level Application*)

- Trained a CNN model on a large image dataset for classification using **TensorFlow** and **Python**, guided by **Google for Developers**.
- Applied data preprocessing techniques, optimized hyperparameters, and evaluated model performance using accuracy and confusion matrix.
- Achieved significant accuracy improvement and gained hands-on experience in **deep learning for computer vision**.

Certifications & Achievements

- **Google Code Jam** - Ranked in **Top 2,500 Rank** globally (**04/2023**).
- **NASA Space Apps Challenge** - Ranked **Top 5** for innovative satellite data visualization project (**06/2023**).
- **Google Cloud Skill Badge** - Mastered **prompt design and AI/ML deployment** within **Google Cloud Vertex AI** (**11/2024**).