

# venu kumar j

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## Experience as Data Scientist and Pythoneer

I am an accomplished professional with expertise in computer vision, deep learning, and machine learning. I have a strong passion and a proven track record of success in building data science projects. My diverse background includes data science domain, and collaborating with renowned academic institutions such as IIITH, IISc to develop cutting-edge machine learning projects using Python for executive programmes. I'm dedicated to mentoring aspiring professionals in the field of Data Science. With solid skills in full-stack development using Django and Spring Framework, Streamlit, Gradio I craft robust web solutions for exceptional user experiences. Additionally, I drive innovation through OpenAI ChatGPT, creating dynamic and engaging conversational systems.

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## Vision

As a data scientist, I aim to elevate Generative AI models to redefine content creation - enabling seamless, personalized text generation and revolutionizing collaboration with an intelligent and adaptive recommendation system.

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## Professional Experience

### PwC AC India

August 2024 - Present

#### Senior Associate, GenAI Developer

- **Summary:** Senior associate data scientist working on Generative AI solutions including agentic frameworks, autogen and cloud resources such as Azure AI Search, Azure Doc Intelligence and Azure Cosmos DB. Building AI agent solutions using AWS bedrock flows, agents and models etc.
  - **Key skills:**
    - Microsoft Azure - conversable agents, autogen, AI search index, doc intelligence, azure functions, cosmos db.
    - AWS - bedrock agents, flows, RAG, opensearch serverless kb, lambda functions, s3 bucket.
  - **Accomplishments:**
    - Successfully completed the project on automatically generating RFP responses using agents and handed over to client (Molina healthcare) on time.
  - **Clients worked for:**
    - Molina Healthcare, BannerHealth, Brookfield
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### Tata Consultancy Services Limited

February 2022 - July 2024

#### Systems Engineer

- **Summary:** Proficiently managed NLP projects and LLM initiatives alongside diverse involvement in software development, requirement analysis, and deployment across various stages of the software lifecycle. Demonstrated expertise in NLP through crafting ontologies and graph networks for search engines, enhancing text classification, sentiment analysis, and text generation capabilities. Acquired substantial experience in Generative AI, and successfully developed solutions for clients.
- **NLP Expertise:** With strong background in NLP, I delved deep in creating ontologies and graph networks for search engines and ranking systems, text classification, sentiment analysis and text generation.
- **Generative AI:** With deep knowledge and hands-on experience, developed more than 5 solutions using with OpenAI, ChatGPT and LLM's. Hands-on experience in fine-tuning Large Language Models (LLMs) using LoRA (Low-Rank Adaptation) for domain-specific tasks.

- **Accomplishments:**
  - Achieved Digital Milestone as part of wings1 program (incentivization based on learning)
  - Proved as a Hi-Talent by clearing all technical tests including Python and Fullstack hands on.
  - Awarded Employee of the month consecutively 2 times in a single year.
- **Remarkable Projects:**
  - Ticket Recommendation using Elasticsearch
  - Creating domain Based ontologies for cognitive search
  - Text similarity and question answering using Langchain FAISS and RAG
- **Key Skills:**
  - NLP, Elasticsearch, LTR, Ontologies, Graph Networks, MLOps, MLflow, ChatGPT, LangChain, RAG, Django, Azure Open AI, Streamlit and Gradio
- **Clients worked for:**
  - Worked on Client(AMD) Project as a Data scientist on Generative AI and ML including Anomaly Detection and identifying frequent patterns using apriori, association.

**TalentSprint Pvt Ltd**

**June 2019 - January 2022**

**Executive, Content Development - AIML**

- **Summary:** Joined as a trainee, grabbed an opportunity in the AIML program from IIIT Hyderabad and intern turned to a full time within a year with sheer excellence. With AIML practice, code walkthroughs, hackathons and assignments, I emerged as a mentor and played key role in organization's growth for a specific quarter. Received the honor of leading a prestigious CDS project at IISc Bangalore, where I dedicated my efforts to the development of content in AIML and Data Science. Impressively developed more than 25+ mini projects through collaborative efforts with peers at IISc, by grabbing valuable opportunities to enhance and redefine mathematical skills in the realm of computational data science.
- **Mentoring Experience:** As a proficient problem solver with a strong command of AIML tasks using Python and strong mathematical and background in Statistics and Linear Algebra , I have had the privilege of mentoring AIML participants in executing their Mini Projects. This role involved teaching assignments, guiding their project development, and resolving queries to ensure their understanding and success in the subject matter.
- **Achievements:**
  - Awarded for Excellent teaching and mentoring the professionals in AIML and Data science course in 2021 march ([Teaching Excellence Award - Q4, FY 20-21](#))
  - As a Fullstack developer trainee, single handedly worked on project and achieved a certification from [MentorMinds](#)
- **Remarkable Projects:**
  - Stock Trading using Deep Reinforcement Learning
  - Face mask detection and emotion classification
  - Chatbot from scratch using python (Replica of Alexa skill chatbot)
  - Forex platform (A fullstack web application using Spring boot and JQuery)
- **Key Skills:**

Pytorch, Tensorflow, Cassandra(CQL), PySpark, EDA, Classical ML models, Timeseries models, CNN, RNN
- **Clients worked for:**
  - IIITH for AIML program, IISc for CDS (computational data science) program.

**Acta Scientific Publications Pvt Ltd**

**June 2018 - June 2019**

**Summary:** Managed the scientific journal using frontend and tools including Wordpress for publishing of research articles along with plagiarism and proof reading to maintain high quality standards.

**Key Skills:** Excellent verbal communication, Editorial collaboration, HTML and CSS, Wordpress administration, Document review management and Publishing coordination.

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### **Tech Expertise**

- Python for ML & DL - Expert
- Fullstack - Intermediate
- Production & Development - Expert
- Data Structures & Algo - Intermediate
- Design & infrastructure - Intermediate

### **Certifications**

- [Google Cloud Professional Machine Learning Engineer](#)
- [Microsoft Certified: Azure Data Scientist Associate](#)
- [Microsoft Certified: Azure AI Fundamentals](#)
- [Python3 by SoloLearn](#)
- [Practical Knowledge Modelling: Ontology Development](#)

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### **Higher Education**

**Graduation:** Bachelor of Technology (B.Tech)

**Stream:** Computer Science and Engineering

**College:** Mallareddy College of Engineering

**Duration:** September 2014 - May 2018

**Affiliation:** Jawaharlal Nehru Technological University

**Location:** Hyderabad

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