

# 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 IITH, 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

**Tata Consultancy Services Limited**  
**Systems Engineer**

**February 2022 - Present**

- **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.
  - **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 handson.
  - **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
  - Currently Working on Client(AMD) Project as a Data scientist on Generative AI and ML.
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**TalentSprint Pvt Ltd****2019 August - 2022 January****Executive Content Development, AIML****2020 Oct - 2022 Jan****AIML Intern****2019 Dec - 2020 Oct****Fullstack Developer Trainee****2019 Aug - 2019 Dec**

- **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, 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.
  - 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

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**Acta Scientific Publications Pvt Ltd****2018 August - 2019 July**

**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

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### **Tech Expertise**

- Python for ML & DL - Expert
- Fullstack - Intermediate
- Production & Dev - Intermediate
- Data Structures & Algo - Intermediate

### **Certifications**

- Microsoft Certified: Azure Data Scientist Associate
- Microsoft Certified: Azure AI Fundamentals
- LLM Observability: Agents, Tools, and Chains
- Python3 by SoloLearn
- Practical Knowledge Modelling: Ontology Development

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## **Higher Education**

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

Computer Science and Engineering

**Mallareddy College of Engineering, JNTUH**2014 - 2018

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