# Manushresth Krishnan

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## EDUCATION

**Chennai Institute of Technology**                                             Chennai, Tamil Nadu
*B.Tech – Artificial Intelligence and Data Science*                                             May 2025
- **CGPA:** 8.36
- Relevant Coursework: Deep Learning, Data Science and Analytics, Machine Learning, Operating Systems, DevOps, Computer Networks, Big Data, Data and Information Security, Cloud Computing, Computer Vision.

## WORK EXPERIENCE

**Algoleap Technologies**                                             Hyderabad, India
*AI/ML Intern*                                             Oct 2024 – Mar 2025

- Data Engineering and Model build out: Developed insurance product recommendation engine for an insurance aggregator and showcased business insights by performing data engineering and machine learning by applying data cleaning, dimensionality reduction (PCA), clustering (GMM/KMeans), and visualization for propensity-to-buy insights.
- Service Delivery Accelerators – Created an MVP for an automation and integration framework by Implementing Agentic LLM frameworks using LangGraph for IT processes like employee onboarding via ServiceNow, integrating ServiceNow with SharePoint and Vector DBs for ticket resolution, and automating ITPA tasks including Terraform scripting, Outlook ID provisioning, and Salesforce account generation.
- Application Development & Optimization: Implemented a geospatial solution for tunnel mapping using Genetic Algorithms and Dask. This tool was designed to find the optimal route between start and end points in any terrain by analyzing elevation, vegetation and soil data from raster images.
- Productivity Tools: Developed enterprise tools, including a PowerPoint auto-population tool using COM functions, a voice-enabled desktop tray app (PyQT5, Whisper), and Slack-ServiceNow integrations to track swarm efficiency and resolution metrics.

**The University of Texas at Dallas**                                             Dallas, USA
*Summer Intern*                                             June 2024 – August 2024
- Attended a workshop on Deep Dive into Artificial Intelligence
- Worked on Generative AI algorithms and Large Language Models

**Intel OneAPI**                                             Chennai, Tamil Nadu
*Student Ambassador*                                             Feb 2024 – Present
- Evangelize software development tools and resources from Intel.
- Develop and share projects using Intel® technologies

**IDP Education India**                                             Chennai, Tamil Nadu
*Data Science Intern*                                             May 2023 – Aug 2024
- Created a metaverse using Spatial IO to mimic the IDP's student place office and counselor connect for Emerging Technologies.
- Built LLM model using Falcon, GPT4all.
- Evaluated and observed mission critical business operations for the service desk
- Supported the project team to do a current state study and identify the pain points
- Created process maps and control framework for the large-scale service desk transformation program
- Supported the project team to define curation process and RACI to seamlessly transition to the tobe state
- Took KT session on Generative AI -LLM models, Limitations etc.

**IDP Education India**                                             Chennai, Tamil Nadu
*Data Science Intern*                                             Feb 2023 – Mar 2023
- Played an instrumental role to validate the pain points with respective to mission critical business operations.
- Drafted the process maps and conducted data discovery sessions.

- Created a metaverse using Spatial IO to mimic the IDP's student place office and counselor.
- Created a blockchain node to list the course catalogue and subsequently have smart contracts with NFT minting using Ethereum.
- Delivered knowledge sessions to the team, to embrace web 3.0 stack and gave valuable ideas to extend.

## PROJECTS

**VyapaarNetra- Visual Language Inventory Management** Present
*Visual Inventory Management Chatbot*
- VyapaarNetra is an Inventory management which is powered by a Visual Language Model. This application enables large warehouses to keep track of their resources in an efficient way. The admin can prompt the system for inventory monitoring and identification.

**EduQuery** Apr 2024
*Generative AI ChatBot*
- Eduquery is a Generative AI chatbot where teachers can train with their resources. This enables quality and predictive data in the education industry. This application is powered by Llama3-7B fine-tuned for this use case. Apart from the transformer inference, this application has a reactJs UI, making it easier to prompt and interact.

**Imaginiverse** July 2023
*Artificial Intelligence Image Generator*
- An AI Image generation project using Stable Diffusion to get accurate and creative images.

**Custom LLM using GPT4all** June 2023
*GPT, Artificial Intelligence*
- A user response system developed using Python Programming Language. The system is an emulation of GPT where users can train their own documents or use the internet for prompts utilization. This system uses Hugging face embeddings and Langchain to provide accurate answers that the users seeking

**Appazon** Feb 2023
*Blockchain E-Commerce website*
- Appazon is a Blockchain E-commerce website where users can get their products using their metamask wallet.

**Chappie: AI based Chatbot to answer FAQs** Dec 2022
*ChatBot*
- Chappie is an form of Artificial Intelligence which uses National Language Processing(NLP) and Machine Learning(ML) to understand and give answers to the Questions provided by the user.

## SKILLS AND CERTIFICATIONS

**Technical skills:** Python, HTML, SQL, CSS, Solidity, Power Bi, Tableau, Lookerstudio, Google Analytics, BigQuery, Java, React Js, Microsoft Office, Machine Learning, Generative AI, Prompt Engineering, Large Language Model, Metaverse, Blockchain

**Soft skills:** Leadership, Communication, Team work

**Certifications:**
- Business Analysis & Process Management
- IBM AI Engineering
- AI Prompt Engineering
- The AI Ladder: A Framework for Deploying AI in your Enterprise
- Analyzing and Visualizing Data with Microsoft Power BI
- Python
- Working with BigQuery
- Game development using PyGame