

# KARTHEEK YAKKALA

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## WORK EXPERIENCE

- **Machine Learning Operations Engineer, Tata Consultancy Services (TCS)** (July 2021 - Aug 2023)
  - Developed an end to end ML model for service-now(an Incident management tool) to predict incidents and solve them automatically.
  - Deployed ML model to production using Kubernetes.
  - Integrated MongoDB with python application using Pymongo to manage and store the tickets.
  - Integrated Azure Data Factory(ADF) with the ML application to create and monitor the ADF pipeline runs.
  - Developed a chatbot using Rasa FrameWork and implemented various tasks using it.
  - Migrated the developed application from on premises to Azure cloud.
  - Developed an ML model to auto-cluster the incidents in unsupervised manner.

## PERSONAL PROJECTS

- **Chatbot to answer questions from a document**

The main objective of this project is to develop a chatbot capable of responding to inquiries related to the given document. The chatbot utilizes OpenAI's GPT-3 model, fine-tuned using the Langchain framework, to provide accurate and relevant answers to questions pertaining to the content of given document.

[Link to the project](#)

- **Smart CCTV surveillance system**

The objective of this project was to develop a smart CCTV surveillance system capable of detecting fires. The system utilized a video capturing camera for surveillance and an Arduino UNO microcontroller for information processing. A machine learning algorithm was employed to analyze the video and detect the presence of fire. The system also incorporated mobile-driven technology to notify users of detected fires via SMS, enabling prompt action.

## EDUCATION

- **Masters - University of Central Missouri, Missouri (2023-present)** : Computer Science
- **B.Tech - Jawaharlal Nehru Technological University, Hyderabad (2017-2021)** : Electronics and Communications Engineering, **9.44/10 CGPA**
- **Class XII - Narayana Junior College, Hyderabad (2017)** : Overall Percentage : 95.2%
- **Class X - V V CENTRAL PUBLIC SCHOOL, Khammam (2015)** : 10/10 CGPA

## SKILLS

**Technologies** : Machine Learning ,Deep Learning,Devops,Docker, Kubernetes,MongoDB

**Cloud Technologies** : Azure Devops,Azure Kubernetes services

**Programming Languages** : Python ,SQL,Java

**Frameworks and Modules** :Langchain,RASA ,Pytorch,Pandas

**Tools** : Github ,VScode , MS Excel, Word, Powerpoint

## POSITIONS OF RESPONSIBILITY

- **PRESIDENT OF CODING CLUB,ECE Department,Anurag group of Institutions** (November 2018 - May 2019)  
Served as a president of coding club during second Year Btech Electronics and Communications Engineering
- **Volunteer,Kriya Passionate Events,Anurag group of Institutions** (August 2021 - May 2022)  
Worked as an Volunteer for Kriya Passionate Events where Specific Fields of Work included Organizing and Managing TEDx event at Hyderabad.

## ACHIEVEMENTS AND ACTIVITIES

- **ON THE SPOT AWARDEE,TCS** Recieved On The Spot award from TCS for providing a innovative solution to reduce the project budget.
- **Merit Certificate from CBSE**: Recieved Merit Certificate from CBSE Board for scoring 10 CGPA in class 10.

## INTERPERSONAL SKILLS

Good Communication Skills, Strong Analytical and Problem Solving Skills ,Team Management

## INTERESTS AND HOBBIES

Trends in Large Language models, Monitoring Financial Markets, Playing Chess.