

PARANIDHARAN MURUGANTHAM

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in [PARANIDHARAN](#)

PROGRAMMING LANGUAGE

- Python

MACHINE LEARNING & AI

- tensorflow
- pandas
- keras
- matplotlib
- sklearn
- numpy

DEV & ML OPS

- AWS
- Git&Github
- DVC
- Docker
- API- Celery Redis
- Kubernetes

EDUCATION

Sathyabama Institute Of Science and Technology

2020 - 2024

Bachelor of Engineering
(Computer Science and Engineering) **CGPA : 7.9**

ACHIEVEMENTS

- IIT- Madras -tech talks
- Tech talk meet held at IIT Madras it was conducted by IIT
- Microsoft innovation club
- Member of microsoft innovation club
- Tech event - Sathyabama university
- Inter collage level tech meet conducted by sathyabama university secured top 20 in Tech quiz
- Successfully organized an inter-college tech event with team
- Member of TECNOSUMMIT event organization held at sathyabama
- Public event- Awariness about AI organised by IIT Madras
- gave a speech about "Awariness about AI" in IIT

Professional Summary

A Project Associate in machine learning and computer architecture at IISc, developed sophisticated chatbot functionality using retrieval-aided generation, fine-tuning, and GPT models. Currently running machine learning research, focused on creating classification models from scratch and exploring a wide plethora of neural network architectures. Has strong theoretical knowledge with hands-on experience in practically applying Machine Learning concepts.

WORK EXPERIENCE



Internship| IISc 03/06/2024 - 01/08/2024

- Collaborated very closely with a multidisciplinary team in the implementation and optimization of various machine learning algorithms and pipelines. Working on cutting-edge AI generative projects
- Researching and participating in various experimental neural network architectures to improve robustness and model performance.
- Implemented best practices of DataOps and MLOps for the efficient deployment and management of machine learning models and data pipelines.

Workshop

Manage routing in aws

02/2023 - 04/2023

- Managed the development and implementation of infrastructure automationsolutions using AWS technologies such as EC2, S3, ECS, EKS, Lambda.
- Performed analysis of existing cloud environment and developed strategies for migrating workloads to AWS Cloud and make their local hosting with failover routing policy and make their businessmodel more optimized.

PROJECTS

Machine learning project using flask and python

June 2022-Aug 2022

- Created prediction based machine learning projects in intercollage level competition
- You tube comment extraction and sentiment analysis using python flask

AWS- failover routing policy tor startup company

Nov2022- Jan2023

- Using AWS failover routing policy and with company domain ihosted a primary and secondary server for the company
- Expertise in route 53 and EC2 instance by this project and thisproject helps in overall business model

Machine learning customer segmentation using k means algorithm

- Machine learning: Collage level inter discipline project to solve real time problem by using an algorithm
- Customer segmentation using k means algorithm helps in enhancing the business model and make more cost efficient

March2023-May2023

Advance outbound authorization and monitoring

Aug2023-Oct2023

- I have developed a web-based hostel management applicationfor my university.
- This project has brought numerous benefits to the university,especially in terms of authorizing and monitoring hostel students

GEN-AI | IISC

Jun2024-present

- Technologies Used: Python, FastAPI, Celery, Redis, GPT-3, Hugging Face Transformers, Retrieval-Augmented Generation (RAG)
- Used FastAPI to create a robust chatbot backend, ensuring efficiently built API endpoints that scale. Integrated Celery and Redis.
- Added features extracting and featuring with robust technologies and pipeline and machine learning designs

CERTIFICATIONS

- IIT Bombay devOps course- [2022]
- STAR-cloud computing project -[2023]
- NPTEL-Foundations of cloud and edge