

Ponnekanti Pranathi

Indian Institute of Technology, Goa

Fourth Year **Undergraduate, Computer Science and Engineering**

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Education

BTech, Computer Science and Engineering, Indian Institute of Technology Goa	CGPA : 6.16/10	2021 – PRESENT
Class 12, State Board, Sri Vyshnavi Bhavan, Naryana Educational Institutions, Vijayawada	Aggregate: 96.7 %	2019 – 2021
Class 10, State Board, St.Johns, Tenali, Andhra Pradesh	CGPA: 10/10	2018 – 2019

Experience

Worked as an Intern at Intrainz in association with Mood Indigo , IIT Bombay [GitHub] (May 2023 – July 2023)

- Worked on the project "Online payment Fraud detection using Machine Learning".
- Trained a Machine Learning Model for classifying fraudulent and non-fraudulent payments.
- Coded the classifier in Python using the libraries Numpy, Pandas and sklearn and few data science techniques.
- Was awarded a certificate for successfully completing the internship in the domain of Machine Learning from Mood Indigo, IIT Bombay.

Google Cloud Study Jams [Google Cloud] (Oct 2023)

- Got familiar with Cloud Computing and Generative AI Technologies through Google Cloud Platform and did many hands on labs and projects through this program.
- Got skill completion badges for the modules Infrastructure in Google Cloud (Cloud SQL, Cloud Spanner, Firestore etc), Networking and Security in Google Cloud (VPC's, Load balancing, Cloud CDN etc), Data,ML and AI in Google Cloud (DataProc-Hadoop and Spark, DataFlow-ETL operations, BigQuery - SQLetc) and many more pathways under Cloud Computing like this.
- Also learnt building ML models with Vertex AI. Got familiar with API's like Natural Language, Cloud Translation, STT and TTS , Vision API, Video Intelligence API etc.

Projects

Smart Watch, Internet of Things (IoT) [GitHub] (Mar 2023)

- Took up the project as a part of the 'Computer Networks' course in our curriculum.
- Worked on the components, characteristics and some use-cases of IoT.
- Prepared a demo on how a smart watch collects data using various sensors (Ex: Temperature and Heartbeat sensor) , manages and process the data in the cloud on an open-source cloud platform named 'Thingsboard' and gave a presentation to the CS students at IIT Goa.

Carrer Development Portal of IIT Goa using React [GitHub] (Nov 2023-Present)

- Got selected for this first ever student driven project at IIT Goa built using React, Redux etc.
- Currently working on this project and made many components like LeftSidebar, Applications Page, Schedule Page for this portal.
- Learnt and applied concepts like React hooks, React router, useState, useEffect , useReducer in my components.
- Got familiar with Material UI , Nodejs and redux functionalities and also few backend technologies for the linkage of both.

Decryption of a Vigenere Cipher[GitHub] (April 2024)

- I have coded this from scratch in 'C' language since I found it interesting from the course 'Coding Theory and Cryptography'.
- It uses the methods like 'Index of Coincidence(IOC)' and 'Improved attack on shift cipher' combinely to find the length of the key of each stream.
- It then decrypts every stream using the improved attack on shift cipher. Then it merges and displays the final message. I have commented the whole process clearly in the code itself.

Real Time Face Recognition using Open CV[GitHub] (August 2023)

- A simple project which detect faces in the real time using webcam. It is done using Open CV and a machine learning algorithm named 'Cascade classifier' which helps in detecting faces in image and video streams.
- It uses a pre-trained face detector for detecting the faces and draws boxes around the features that it identifies.

Skills

Programming Skills:	C, C++, Python, Java, HTML, CSS, Javascript, MongoDB, React, Node.js, Express.js
Tools/Platforms:	MongoDB Compass, Github, Git, Linux, AutoCAD, Latex.
Other skills:	TCP/IP, Numpy, Pandas, Tensorflow, Open CV, Keras
Coursework:	Introduction to Computing, Software Tools, Data Structures and Algorithms, Probability and Statistics for Computer Science, Computer Networks, Computer Architecture, Digital Systems Design, Linear Algebra, Operating Systems, Artificial Intelligence, Discrete Structures, Machine Learning, Compiler Design, Theory of Computation, Cryptography and Coding Theory, Algorithm Design.

Positions of Responsibility

Media Representative, Sports Council of IIT Goa	Member of IIT Goa's Sports Council, working as a Social Media Representative.	(2022 – Present)
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Achievements

- A certificate for the best team among all CS presentations for the project "Internet Of Things" by Prof. Neha Karanjkar, IIT Goa. (2023)
- Received Certificates for successfull completion of Machine Learning , Deep Learning and Computer Vision courses from Kaggle (2023)
- Secured an outstanding rank of 4k among 1.75 Lakh students in AP-EAPCET 2021. (2021)

Extracurriculars & Hobbies

- Playing Badminton, participated in many tournaments held as a part of Sports fest at IIT Goa
- Loves taking part in innovative hackathons, tech competitions and projects. Dancing ,playing TT and also I am a big music lover
- Volunteered for a stem cell donation campaign by 'DKMS BMST' which was a part of the Cultural Fest at IIT Goa.