Pranav Rao

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Bachelor of Technology

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in Computer Science and Engineering

GitHub

Indian Institute of Technology Palakkad, India

LinkedIn

Summary

Want to be part of technologies which contribute towards the betterment of the future

Education

Degree	Institute	Board / University	CGPA/Percentage	Year
B.Tech CSE	Indian Institute of Technology Palakkad	IIT Palakkad	8.88 (Current)	2021-Present
Senior Secondary	New Horizon Scholars School, Thane	CBSE	97%	2021
Junior Secondary	Dhyan Ganga International School, Thane	ICSE	96%	2019

Technical Skills

- **Programming Languages**: Python, C
- **Libraries**: Qiskit, Scikit Learn, Pandas, Numpy, Pytorch, Spacy
- **Tools**: Git, LaTeX, PostgreSQL, Processing
- **Quantum Computing**: Can utilise algorithms such as QFT, QAOA, Grover, QPE
- **Machine Learning**: Have built models involving transformers; can build on Random Forests and SVMs
- **Areas of Interest**: Data Science, Quantum Computing

Projects

Project Name	Project Description	Project Link	Duration
Effect of Entanglement on Cooperative Games (OELP ID3801)	Mentored Project on constructing hypothetical games that demonstrate the advantage of quantum strategies over classical strategies	Report Link	Aug 2023 - Dec 2023
Hotel Management Portal (CS3120)	Created a website for hotel management (DBMS Group Project)	Repo Link	Jan-May 2024
Temporal Chatbot (OELP ID3802)	Created a chatbot using T5 Model which can understand temporal common sense (Mentored Project done as a duo)	Repo Link	Jan-May 2024
Marching Squares (CS5016)	Implementation of Marching Squares Algorithm as an individual course project	Repo Link Website Link	Apr 2024
Tic-Tac-Toe (CS2180)	Individual Lab project done in Lab, based on MiniMax Algorithm	Repo Link	Feb-Mar 2023
Spell-Checker	Individual project on a Spell Checker tool, based on Naive Bayesian Classification	Repo Link	Jul 2023

Electives taken

Course Name	Duration
CS5638 Quantum Computing	Jan 2024 - Present
NPTEL NOC23-CS98 Introduction to Machine Learning (Link)	Aug - Dec 2023
CS5016 Computational Methods and Applications	Jan 2024 - Present
CS55613 Cryptography	Aug - Dec 2023

Training and Workshops

Workshop Name	Institute	Certificate	Duration
Qiskit Global Summer School 2023	Qiskit, IBM Quantum	Link	July 2023
Quantum Computing: Introductions to algorithms and implementations using Qiskit	Qkrishi, IISER Tirupati	Link	May - Jul 2022
Petrichor Machine Learning and Deep Learning Workshop	IIT Palakkad	Link	Feb 2023

Positions of Responsibility

- **Literary Convener**, Cultural Council, IIT PKD *Apr 2023 - Present*
- **Secretary**, Akshar Club, IIT PKD *Oct 2022 - May 2023*

Achievements

- **7th National Level NELTAS ECAT Grand Finale 2017-18**, Medal for Meritious Performance *Link*
- **Vidyarthi Vigyan Manthan 2019**, 3rd Rank in Maharastra State and 1st Rank in Thane District *Link*

Extra Curricular Activities

- **English Creative Writer**, Writing articles, plays, poems, stories, etc.; Part of numerous Creative Content teams *Link*