Bhargav Kantheti

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Objective

- In the pursuit of general-purpose AI, humankind and I have become so lonely. I have been integrating eclectic concepts like Quantum Computing, Arts, Nature, and Philosophy with AI throughout this journey.
- I am very young in the world of research and want to learn more with seasoned professionals who have contributed to the AI industry.
- My undergraduate life started from a pure computational background with competitive programming hackathons and projects and slowly led to a research portfolio in AI.
- I want to increase my knowledge, experience, and contribution to the world through graduate study.

Education

Gandhi Institute of Technology and Management, Bachelor of Technology   2019 - 2023
CGPA: 9.47 / 10.0 (As of semester 6 of 8)
- Top of the class and Top 10 across the CS department every semester.
- Earned a 25% merit-based scholarship every semester.

Sri Chaitanya Junior College, Intermediate   2017 - 2019
CGPA: 9.44 / 10.0

Little Angels School, 10th Grade   2016 - 2017
CGPA: 9.2 / 10.0

Research & Teaching Experience

Telugu Optical Character Recognition   Visakhapatnam, India
Undergraduate Research
Research Assistant   October 2022 – Present
- Research under Assistant Professor Soujanya Buddharaju of the CS department.
- Working on creating custom CNN architecture to predict Telugu language glyphs at 98% accuracy or higher.

Quantum Applications in AI   Visakhapatnam, India
Undergraduate Research
Research Assistant   November 2022 – Present
- Research with the Head of the Physics department, Dr. Mudunur Chaitanya Varma.
- Exploring the potential of quantum physics in enhancing AI algorithms.
- Developing a custom quantum programming library to create an open-source resource for quantum computing enthusiasts.

Design and Analysis of Algorithms   Visakhapatnam, India
Undergraduate Teacher
Teaching Assistant   Spring 2021
- Designed custom solutions to NP-Complete problems with the professor.

Data Structures with Python   Visakhapatnam, India
Undergraduate Teacher
Teaching Assistant   Fall 2020
- Responsible for testing examination question papers.
- Created and Tested assignments.
- Built an automated grading tool to instantly grade programming assignments, which all CS department professors adopted.

Conference Proceedings

Medical Image Classification for Disease Prediction with the aid of Deep Learning approaches   IEEE
6th International Conference on Intelligent Computing and Control Systems (ICICCS 2022)   May 2022

Designing Inventory System utilizing Neural Network in the prediction of Machine Learning-based Design   IEEE
7th International Conference on Communication and Electronics Systems (ICCES 2022)   June 2022

Swarm Behaviour Classification using LSTM and Deep Neural Networks   IEEE
7th International Conference on Communication and Electronics Systems (ICCES 2022)   June 2022

Journal Publication

Qualitative Tools to Analyze Films - Undergraduate Thesis   Elsevier
Neurocomputing Journal   Yet to be Published
- Created tools to represent a film script on the basis of 8 parameters.
- Discussed methods in which quantitative data can be used to analyze a film qualitatively.

Work Experience

Feynn Labs   Guwahati, India
AI for small businesses.
Machine Learning Intern   May 2022– July 2022
- Implemented ensemble machine learning-powered solutions to understand, analyze and predict market trends for small-scale local businesses.
- Managed a team of 5 for three projects.
- Predicted Electric Vehicle market trend in India with a 95% confidence rate.

Key Projects

Dawring to Drawing   Group Project
Convolutional Neural Network
- This tool dynamically recognizes any doodle drawn by the user and suggests refined images.
- Devised this project to aid teachers during the pandemic.
- Created custom neural network architecture to especially run on supercomputers at GITAM University.

Internship Projects   Solo & Group Projects
Data Analysis
- **Retailer Inventory Distribution**: Proposed solutions to help faltering small-scale retail businesses stay in business by integrating technology.
- **Electric Vehicle Prediction**: Designed LSTM algorithm to use the price of Tesla stock and trends in cobalt usage to predict the growth of Electric Vehicles in the Indian market.

Game AI Projects   Solo Projects
NeuroEvolution & MinMax
- **TicTacToe AI**: Developed fuzzy AI with a human-like win rate. Built a novel cost function for the min-max algorithm.
- **Dinosaur AI**: Built NEAT AI to perpetually play google's dinosaur game.
- **Flappy Bird AI**: Created NEAT AI to perpetually play the flappy bird game.
- **Wordle AI**: Programmed linguistics-informed Neural Network to solve Wordle puzzles within three attempts.

Handwritten Digit Predictor   Solo Project
Convolutional Neural Network

Lunar Landing   Solo Project
Deep Reinforcement Learning AI Simulation

Volunteer Experience
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Computer Society of India at GITAM   Visakhapatnam, India
CSI Volunteers Group   January 2021 – May 2022
- Assisted in events and webinars of CSI.

App Development Teacher   Visakhapatnam, India
Code-X Club - GITAM University   September 2020 – November 2020
- Taught Flutter App Development to 400+ Freshman students.

Visakhapatnam Beach Cleaning   Visakhapatnam, India
Vizag Volunteers Association   November 2017 – February 2019
- Served in monthly expeditions to clean Visakhapatnam's beach corridor.

Swachh Bharat (Clean India) Mission   Visakhapatnam, India
Little Angels Volunteer Group   October 2014 – April 2017
- Served in monthly expeditions to plant and water trees.
- This was a program initiated by the prime minister of India to ameliorate the effects of the *Hudhud* cyclone.

Notable Certifications
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Machine Learning Specialization   Coursera
Stanford Online & deeplearning.ai   Summer 2022

Deep Learning Specialization   Coursera
deeplearning.ai   Spring 2022

Awards
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Third Place at Code-X DSA Hackathon	April 2021
First Place at Google DSA Gitam Hackathon	November 2020
7x Hackerrank Champion	
Winner of Hacktober Fest 2020	October 2020
Winner of GITAM Freshmen Hackathon	November 2019
Second Place at Computer Society of India Freshmen Hackathon	August 2019
National Level Champion for the Professor Brahm Prakash Memorial Materials Quiz Organized by IIM Kalpakkam	October 2018