Sri Ram Bandi

Senior Undergraduate
Computer Science & Mechanical
Indian Institute of Technology Delhi

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Education

Present	B.Tech in Mechanical Engineering - (Major) **Indian Institute of Technology Delhi**, India Computer Science and Engineering - (Minor) **Indian Institute of Technology Delhi**, India

Areas of Interest

Machine Learning, Deep Learning, Reinforcement Learning, Applications building

IIT Delhi Undergraduate Thesis

Human Action Classification in Videos under Prof. Prathosh AP : August, 2018 - Current

- Developed a pipeline to classify human actions in cross-cultural medical training videos of kids with Autism.
- Implemented transfer learning with an additional thresh-holding technique, to achieve peak accuracy(87%) with available low amounts of data, compared against state-of-art video action classification models on the same data(kinetics-i3d - 82%).

Key Courses Taken

Machine Learning, Design Practices in Computer Science, Database Management Systems, Data Structures, Probability and Statistics, Linear Algebra, Calulus, Numerical Methods and Computation, Operation Research

Projects - (codes available on github)

- **mediaStore - A Blockchain application** November, 2017
    - Created a scalable decentralised blockchain application using ethereum smart-contract to bring ease and transparency in media publishing industry.
    - Smart contract allows payment in ethereum for media and stores all the individual transaction logs on blockchain.
    - Coded the whole application in 3 days and secured good position in hackathon.
- **Machine Learning under Prof. Parag Singla :** Jan, 2017 - May, 2017
    - Experienced with using, implementing, and analyzing most textbook machine learning algorithms.
    - Experience in studying and implementing Deep Neural Networks in Image Recognition problems such as in traffic incident prediction.
- **AI TAK game under Prof. Mausam :** Jan, 2017 - March, 2017
    - Designed an AI bot, which can play the game of TAK in 'adversary aware situations'.

- Used of Adversarial search algorithms such as Minimax and Alpha Beta Pruning for determining best possible moves for the bot in any state.
- Many logical features such as stack/piece control, weights to different states were mathematically formulated, learned and incorporated yielding good results.

- **Coding Contest Website for IIT Delhi** : August, 2016 - December, 2016
  - Created an academic website which hosts Online Coding Competitions. Designed a discussion blog feature to help share thoughts and projects.
  - Implemented Elo rating system to maintain user ratings.
- **Query Base under Prof. Maya Ramanath** : Jan, 2017 - March, 2017
  - Created a simple data query website using Postgresql, PHP and Python. Secured student, course, instructor data by web scraping from IITD LDAP website.
  - Using string parsing of the queries. SQL and 'customized' queries can be entered.
- **EKO India Financial Services Pvt. Ltd.** (May, 2016 – July, 2016) - Internship
  - Design and Development of OAuth, responsive website and MongoDB Integration. Money Transfer Web Application with algorithms for agents to transfer money.
  - Integrated remittance APIs, removing security issues. Automated bulk file mailing.
- **Projects for the Differently Abled** : August, 2015 - Current
  - Created applications using bing and watson APIs which helps the differently abled.

Honour Society Membership

- Student lead of Developer Student Club - IIT Delhi chapter
- Member of Coding Club and Aeromodelling Club - IIT Delhi

Awards and Achievements

Won a Coding Hackathon in which nearly 20 teams participated across the country. 2nd rank(PD) in IIT-JEE, the entrance test to IITs, where 1.5 million students participated.

Computer Science / Software Engineering Skills

- Programming Languages: C ,C++, Python(TensorFlow, PyTorch), Java
- Software & Technologies: Javascript/HTML/CSS, PHP, SQL, Cypher, Blockchain, Matlab, FSL(fMRI), Android Studio

Interests

Hobbies include Poker, PC games, Competitive Programming, and trying out new recipes