Chappa Sri Vinay

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Education

- **Cluster Innovation Centre, University of Delhi** *July 2018 - July 2022 (Expected)*
  B.Tech (Information Technology and Mathematical Innovations) Percentage: 84.14%, Institute Rank: 6
  Minor in Management and Economics

Interests

Data Science, Computer Vision, Robotics, AI and Machine Learning, Building Solutions for real life applications.

Skills Summary

- **Programming**: Python, C, C++, MATLAB, Mathematica, R, Javascript, HTML and CSS
- **Tools**: Git and Github, Kaggle, Google colab, Jupyter Notebook, Unity, Lens Studio, Figma, Google Drive, Latex
- **Libraries**: Matplotlib, Pandas, NumPy, plotly, Pytorch, fbprophet, PIL, OpenCV, YOLO, NLTK, Tensorflow, Keras, speechrecognition, gtts, Google Drive API, Cloud Vision API
- **Platforms**: Linux, Windows, Arduino, Raspberry Pi, GCP
- **Soft Skills**: Leadership, Time Management, Project Management, Communication and Presentation Skills, Enthusiasm for new concepts.

Experience

- **Tecstar Labs Inc.** Denver, Colorado, US (Remote)
  Artificial Intelligence Research Intern *February 2021 - Present*
  - Currently working on a project which involves prediction of utility pole height and image capturing distance using a single image.
  - Actively involved in brainstorming, and planning, and development of projects and novel methods to develop AI models.
- **Defence Research and Development Organisation (DRDO)** New Delhi
  Research Intern *June 2019 - December 2019*
  - Worked on the problem of Image Captioning, which involves automatically generating a natural description of an image.
  - Focused on adding attention mechanisms to the domain of image captioning using attention models.

Publication

• Vinay, C., Bhatia, R., & Bagai, S. (n.d.). Dynamic Model to Predict the Flattening of the COVID-19 Outbreak Curve in India. Alexandria Engineering Journal - Elsevier. (Under 2nd stage review)

Projects

- **Artificial Intelligence-Powered Application For The Visually Impaired To Navigate (AIView)**: (Work in Progress) The project has been started with the aim to develop wearable tech for visually impaired people to help them to know what is happening around them and to navigate from one place to another by using artificial intelligence, machine learning and computer vision.
- **Analysis and Prediction of COVID-19 Outbreak and Study of Impact of COVID-19 on Indian Economy**: The main aim of this project is to analyse and predict the spread and outbreak of the 2019 novel Coronavirus disease (COVID-19) using Python programming language and Data Science tools and to study the impact of the COVID-19 Outbreak on the economy of India and globally with the help of various data resources and visualizations.
- **Attention Based Image Captioning**: In this project, we have worked on the problem of Image Captioning, which basically involves automatically generating a natural description of an image. We have particularly focused on adding attention mechanisms to the domain of image captioning using attention models.
- **Instagram Multi Account Bot built from scratch**: I have developed a Instagram multi account texting bot where user can enter his multiple accounts credentials and the bot sends messages to around 20 users in single hour from each account.
- **Auto Tuning PID controller in Robotics**: In this project, we aimed to implement auto tuning PID algorithm to self navigate a drone and a self balancing mobile robot individually. The drone and the mobile robot were able to hover over a given fixed and self navigate from one point to another

Position of Responsibility

- **Convener of Robotics Lab of Cluster Innovation Centre, DU** *August 2019 - Present*
  Responsible for maintaining integrity of all the activities.
  Construct meetings, plans and keep a record of members.
- **Stock Manager, Robotics Lab of Cluster Innovation Centre, DU** *March 2019 - August 2019*
  Organized stock of the lab, issuing components to members.

Achievements

- Secured 2nd Place in Data Science Hackathon conducted by IIT Bombay in February 2020.
- Selected for E-yantra 2019-2020 (Robotics competition conducted by IIT Bombay) Stage 2 and completed Task 4.
- Participated in E-Yantra 2018-19 and qualified for Stage 1.
- Secured All India 44th Rank in the University of Delhi entrance exam for B.Tech course.
- Selected in Andhra Pradesh Tennis team for National level school games competition. (2016)
- Participated in several National level Tennis tournaments conducted by All India Tennis Association (AITA)
- Stood 3rd Rank in several National level Tennis tournaments conducted by All India Tennis Association (AITA)