Chiranjeev

Email : chiranjeev.arya.19@gmail.com
LinkedIn : chiranjeev-arya-566723175
Mobile : +91-9650329496
Github : aryachiranjeev

Education

- **Bharati Vidyapeeth's College of Engineering** — New Delhi
  Bachelor of Technology in Computer Science Engineering; CGPA: 8.15 (Till 6th Semester) — *August 2017 - July 2021*
- **MCL SBM Senior Secondary School** — New Delhi
  CBSE XII; Percentage: 89.2 — *May 2017*
- **DAV Public School** — New Delhi
  CBSE X; CGPA: 9.6 — *March 2015*

Experience

- **Indraprastha Institute of Information Technology Delhi** — New Delhi
  Research Intern — *May 2020 - July 2020*
  Mentor : Dr. Vikram Goyal
  - Research project based on predicting the traffic congestion on Delhi roads.
  - Used Delhi Transport Corporation data set for analysing the traffic jam.
  - Plotted various graphs relating to time dimension vs location(roads) for better visualization and analysis.
  - Used various machine learning and deep learning techniques for predicting traffic congestion such as Hidden Markov Model, Bayesian Network, LSTM networks, Clustering Algorithms such as K-means. Finally, got best results with LSTM netwokrs.
- **Indraprastha Institute of Information Technology Delhi** — New Delhi
  Research Intern — *June 2019 - August 2019*
  Mentor : Dr. Vikram Goyal
  - Research project based on Analyses on Spatial temporal data and applying Deep learning algorithms to predict the arrival time of DTC buses on bus stops.
  - Analysed data collected through GPS installed in DTC buses.
  - Generated graphs and histograms for proper visualization of routes and timings of buses.
  - Used QGIS software to plot the routes of buses on Delhi map.
  - Applied LSTM networks on spatio-temporal data which is similar to time series problem.
- **DSC BVP** — New Delhi
  RNIS-ML Executive — *August 2019 - August 2020*
  - Developer Students Club(DSC) is an active society which works in delivering knowledge to students by taking various workshops and organizing events.
  - Taught python and Machine Learning concepts to the students.

Projects

• Accent Sensitive Voice Cloning System
Built a Novel method for Voice cloning system which can clone one's voice with only few voice samples as input. Worked on Indian English and American English voice data.This research proposes a generative decoder model which aims to clone the user's voice whilst capturing the native accent and linguistic features of the speaker to provide a naturalized synthesized output voice.

• DTC buses arrival time prediction on bus stops
Collected and Analysed the dtc bus data which is basically a spatio-temporal data.Visualized the routes of

DTC buses using QGIS software on Delhi map and generated various graphs and histograms to analyse the the various features of data and genearate some new features. Applied LSTM networks to predict the arrival time of dtc buses on bus stops.

• **Intelligent Parking System**
Developed a solution to find the parking spot in huge parking lots using Computer Vision and Convolutional Neural Networks .Person can also prebook the parking slot digitally through phones.Used CV to determine the parking spots using edge detection technique and recognize the number plate for the registry when the car enters the parking lot and CNN to find whether the parking slot is empty or filled.

• **Rendering 2D texture onto 3D model**
Developed a Novel approach to render self created textures onto 3D models using Machine Learning and Image processing.Created cluster based approach which resulted out to be the more efficient as it takes less computation power and less time to render texture.

Courses

- **Machine Learning : Coursera, Andrew Ng**
- **Machine Learning : Caltech, California Institute of Technology**
- **Deep Learning : Coursera, Andrew Ng Deep Learning.ai**
- **Convolution Neural Networks : Stanford University CS - 231n**
- **Computer Vision : CSCI 512 ,Cordon School of Mines,Engineering Division**
- **Coding Ninjas : Data Structures and Algorithms in C++**

Programming Skills

- **Programming Languages**: C, Python, C++, MATLAB, Octave, JavaScript
- **Technologies**: Machine Learning, Deep Learning, Computer Vision, HTML, CSS
- **APIs**: Tensorflow, Keras, QGIS(Quantum Geographic Information System)
- **Databases**: MySQL
- **Operating Systems**: Windows, Ubuntu
- Data handling and Analytics using Tableau, Microsoft Excel, Python(Pandas, Matplotlib)

Achievements And Certifications

- GATE Qualified-2021
- Won the internal hackathon on Smart India Hackathon-2020 organized by BVCOE.
- Semi-finalist in coding competition CodeGladiators2020.
- Top 10 among five thousand teams in Jio CG AI-19 Hackathon.
- SUMMER SCHOOL ON AI Assisted Data Analytics-2019
- WINTER SCHOOL ON AI-2019: Organized by the Infosys Center for Artificial Intelligence at IIIT Delhi
- Coding Ninjas-2018: Course of Data Structures and Algorithms in C++

Groups

• **ML.India** August 2019 - August 2020
Volunteer

• **DSC BVP** August 2019 - August 2020
RNIS-ML Executive