

Education Qualification

Computer Science and Engineering

Shri Ramdeobaba College Of Engineering and Management
C.G.P.A – 7.85

2016-present

Technical Proficiencies

- Programming Languages : C, C++, Java, Python, C#
- Codechef (keshav_) : 1992 rating (4★)

Projects:

- **Super Mario using Genetic Neural Network** : [Link](#)
 - The current frame of the game is given to the **CNN model** as an input, which analyses and predicts the next step to be performed.
 - For each step, the fitness of each model is changed based on the correctness of the step taken and only the best models were crossover for the next generation.
 - As the number of generation increases, it results in a Mario that can tackle enemy and collect coins as well.
- **Augmented Reality Based Model Assembly** :
 - An Augmented Reality App that is used to display 3D Model Assembly Instructions by scanning QR code, after a successful scan the corresponding model is downloaded from the cloud.
 - We have used **Vuforia SDK** for AR support, **Firebase** for backend, **Unity** for rendering the AR instructions and Android for the UI.
 - Incorporated the concepts of Intelligent UI and Intelligent Sense Feature in the app that uses 3D **Object Recognition** to direct the user to the appropriate step
- **Research work on speech recognition** : (Ongoing)
 - Aimed at finding alternative algorithms for improving speech recognition systems.
 - Involved the study of Digital Signal Processing, and phonetic features.
 - We plan to refine our findings and publish them.
- **Protect +** :
 - Android app designed to prevent eye strain and fatigue by scheduled break at different time intervals.
 - Depends on the screen time as well as other factors and suggests exercises to help eye fatigue.

Internships

Machine Learning Intern [Link](#)

Sabertooth Technologies :

2/7/18 - 5/10/18

- Build an **LSTM (Neural Model)** to predict how a company's price will change the next day. To do this, past similar trend of this company along with price change of other companies belonging to the same sector were used.
- **Data Cleaning**: Removing repetition, Dealing with missing data, Removing misguiding data.
- Used different platforms (such as **Tensorboard**) to better understand a model's growth and better visualisation of the results followed by employing suitable approaches to overcome the defect.

Front End Development [Link](#)

Shri Ramdeobaba College of Engineering and Management :

11/5/-18 – 11/12/18

- Developed and maintained a web portal which will act as a mediator between the C.S.E department and respective students.
- Student portal will have details regarding all the events happening in the department such as events, newsletter, workshops, ongoing projects, internship programs etc.

Certification

- **UpGrad** – Learning Week in Machine Learning and AI [Link](#)
- **Coursera** – Deep Learning Specialization [Link](#)

By: **IIIT-B**

By: deeplearning.ai

Co-Curricular Activities

- **Winner of Smart India Hackathon 2019.**
- Finalist in "3addresscode" Hackathon 2019 organised by Johnson and Johnson.
- Algorithmic Problem Setter in Code Relay, Placement Trailer.
- Chapter Secretary of ACM Chapter of college.
- Organised a workshop on "Problem Solving".
- Secured 1st rank in "Technical Writing" contest held under Compusys Society.