

## PROJECTS

**BSES RAJDHANI POWER LIMITED**

September 2018 – Present

- Created a recurrent neural network using **AutoML** to **predict failures** for extra high voltage **electric feeders** that uses **temporal dependence** on a few **SCADA** inputs for use in cities that don't have proper data for a conventional static approach.
- **Used raw data** from the data warehouse (70 GB) to create training sets of **different resolutions**. Currently working on the **testing through deployment** of the model and creating a new model with a more reliable definition of an electric fault.

**MEMORY ATHLETE**

February 2017 — Present

- Developed the open source **android application** from scratch, **supervised** the development on other platforms
- **Scraped the web** for text, HTML and image resources used to generate lists and provide learning and practice material
- Created multiple **algorithms** including one to compare a list of manually entered responses with a list of correct answers while taking into consideration the efficiency and multiple **human errors** that could cause major errors in the comparison
- Handle the repository, release, advertisements, acquisition, translations, legalities, contributor recruitment and finances
- The app has received over **60,000 downloads** despite a very small target audience and has been accepted at **Open-Forge**

**ZUKI MESSENGER**

November 2017 – July 2018

- Responsible for design and development of the android application and the server side programming.

## TRAINING

**LAVA INTERNATIONAL LIMITED, NOIDA**

December 2018 – January 2019

- Worked on a project to read **text from images** of documents and **replace wrongly** scanned/missing **characters**
- Performed **clustering** of images **using neural networks** using the t-SNE algorithm to calculate the loss and an auto-encoder

**BOMBAY SUBURB ELECTRICITY SUPPLY, NEW DELHI**

June 2018 – July 2018

- Learned **Data Science** and **analyzed** the billing data for the months February and March, 2018 using the SciPy environment

**DEEP FOUNDATION, NEW DELHI**

October 2014 — December 2014

- **Taught** computer science, physics, chemistry, and mathematics to **students** of classes eighth to twelfth
- **Organized** multiple celebrations on **festivals** like Dussehra, Diwali, Eid, Christmas, et cetera
- Provided **guidance** to the **students** on topics related to studies, stream selection, college, life, career, et cetera

## EDUCATION

Year	Qualification	Institute	CGPA / %
2020	B.Tech. (Computer Science and Engineering)	Bharati Vidyapeeth's College of Engineering, New Delhi	63 (upto 5th sem)
2015	XII, CBSE (Computer Science)	Birla Vidya Niketan, New Delhi	83.4
2013	XII, CBSE	Birla Vidya Niketan, New Delhi	7.4

## PROFESSIONAL CERTIFICATIONS

- Certification in **Usable Security** from **The University of Maryland, College Park** on Coursera July 2019
- **Specialization** in Programming the **Internet of Things** from **University of California, Irvine** on Coursera June 2019
- Completed the **Reinforcement Learning Explained** course by **Microsoft** on edX April 2019
- Completed the **Applied Data Science** 5-course **specialization** by the **University of Michigan** on Coursera February 2019
- Completed the **Deep Learning** 5-course **specialization** in Python by deeplearning.ai on Coursera June 2018
- Certification in **Machine Learning** on Octave/MATLAB by the **Stanford University** on Coursera May 2018

## EXTRA-CURRICULAR ACTIVITIES

- Competed and became a **table official** in the Abu Dhabi Combat Club **India** Open 2019 June 2019
- Learning **Robotics** from **University of Pennsylvania's MicroMasters** program on edX June 2019
- Learned **Blockchain Fundamentals** from **University of California, Berkley's** professional Program on edX June 2019
- Learned Big Data Analytics from University of California, San Diego's specialization on Coursera May 2019
- **1st** position at the **Smart India Hackathon** 2019 (software edition, complex problem). Predicted **renewable energy generation** March 2019
- Learned **Firebase** from Udacity's Firebase in a Weekend and created the required projects January 2018
- Learned **Advanced Android App Development** from Udacity and completed the provided projects July 2017
- Represented Delhi in the **National Grappling Championship** in the under 58 kg Gi division August 2016
- Secured **3rd** position in the **Delhi State Grappling Championship** in the No-Gi division July 2016

## TOOLS, TECHNOLOGIES AND OTHER SKILLS

- **Python**, Tensorflow, Keras, SciPy environment, BeautifulSoup. **Java**, Android Studio, Espresso, Firebase, Google Ads. **C++**, **MATLAB**, JavaScript, LaTeX, SQL, XML, XHTML, HTML, Vim, GIMP,
- **Data Science**, **Machine Learning**, **Mobile App Development**, **Electrical Grid and Power Generation**, Computer Vision, Natural Language Processing, Internet of Things, Raspberry Pi, Arduino, Linux operating systems, Cyber Security, Blockchain Technologies, Robotics
- **English**, **Hindi**, French, Spanish, German, Norwegian, Hiragana, Katakana, Chinese character, Sanskrit, Russian, **Shorthand**
- Memory Sports, Brazilian Jiu-Jitsu, Boxing, Muay Thai, Football, Swimming, Pistol Shooting, Keyboard, Tabla, Jazz, Mosh, History

## POSITION OF RESPONSIBILITY

**Technical executive and Student Representative, Association of Computing Machinery, BVCOE**

August 2016

- Recruited new members for the society and publicized various events conducted by the society – November 2017
- Organized seminars by notable speakers, society fests, other society events, competitions, workshops, et cetera

## PUBLICATION

**Transition to Autonomous Vehicles: Feasibility and Implications in The Near Future**

JICSE, 2018

- Analyzed the need of autonomous vehicles based on recent studies and technological improvements. Followed it by a thorough study of the challenges faced by Autonomous Vehicles and how the transition can be accelerated. (Team Size: 3)