Rajat Gupta
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Education

B.Tech Electronics and Communication Engineering - 3rd year *(Anticipated 2019)*
Dr. SPM International Institute of Information Technology, Naya Raipur

Technical Skills

- **Software Development & Programming:** Python, C/C++, Python packaging, C#, and Assembly
- **Web Development:** HTML, CSS3, Material CSS, Django, AJAX, jQuery, and JavaScript
- **Machine Learning & Data Science:** Tensorflow, Pandas Library, Numpy, Scipy, Scikit-Learn, and Matplotlib
- **Tools:** Visual Studio, Visual Studio Code, Jetbrains IDE, Git, MATLAB
- **Operating System:** Linux and Windows

Experience

- **Research Internship at Indian Institute of Information Technology - Allahabad (May 2017 - July 2017)**
  Done research internship at IIIT-A. Worked on artificial neural networks for prediction of time series data. Two papers related to work is in process of publishing at international conference.
- **Head of Web Development at International Institute of Information Technology, Naya Raipur (Oct 2016 - Feb 2017)**
  Build websites for college's fest and different societies. Developed code base for both front and backend of websites.

Projects

- **Text to image synthesis (Aug 2017 - Present):** Mini project in which I am working on generative models in machine learning especially using generative adversarial networks for synthesis of image. **(Academic Project)**
- **Neural networks for stock market prediction (May 2017 - July 2017) (Internship project):** Worked on neural networks for prediction of Indian Stock market index. Tried to overcome over fitting problem by using different regularization techniques and two papers related to this work is in process of publishing. Mentioned various comparisons if regularization techniques.
- **Flight Data Analysis for prediction of arrival time (Academic Project) (Feb 2017 - April 2017):** After applying different regression on dataset it was found that linear regression was better for prediction of arrival time. Large dataset of US domestic flights was analyzed and applied linear regression for finding arrival time.
- **Feature Extraction Amplifier for EEG data (Academic Project) (Feb 2017 - April 2017):** A VLSI course project in which we designed and replicated one research paper for EEG data extraction. An amplifier is designed for feature extraction processor. Three stage amplifier amplifier was designed for various types of signals.
- **Decision making in Cognitive Radio networks (Feb 2017 - April 2017):**Worked on finding parameter in decision making of cognitive radio networks and used fuzzy logic for decision making with neural network.
- **Web Crawler & Scraper (Hobby Project) (Aug 2016):** Written in Python. Out of curiousity how web crawlers work, I created my own web crawler and scraper which crawls and indexes web pages, links and scrape whole page & saves useful data.
- **Hand Gesture based Robot (Academic Project) (March 2016 - May 2016):** A simple hand gesture rover which captures and recognizes hand gesture and based upon inference it responds and move.

Websites Developed

- **Robotics Society (July 2017):** A simple website for robotics society of IIIT-NR. http://iiitnrrobotics.club
- **Technovate 2017's website (Oct 2016 - Jan 2017):** Developed on my own both front and backend of the website in Materialize CSS and Django framework. Currently not hosted because new website for upcoming is designed. **Git Repo:** https://github.com/rajatgupta310198/Technovate

Activities

- Participated in student's largest hackathon in, "Hack in the North" March 2017 at IIIT-Allahabad
- Attended workshop on Cloud Computing by Dr. S E Pillai, NIT Jaipur
- HPC workshop by C-DAC India
- Big Data Analytics Symposium by Dr. Artus Krohn-Grimberghe