Tavish Jain

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EDUCATION

Delhi Technological University   New Delhi, India
Bachelor of Technology majoring Software Engineering; CGPA: 8.9/10.0   *August 2017 - May 2021*

EXPERIENCE

Samsung R&D Institute (SRIN)   New Delhi, India
Software Engineering Intern   *June 2020 - November 2020*
- Worked with the R&D team at Samsung to develop a Handwriting Recognition System using Deep Learning.
- Developed a neural network using Pytorch, trained over 9000 images, which got an 8.8 Character Error Rate
- Our paper has also been accepted at the IEEE International Conference for Convergence in Technology 2021.

Delhi Technological University   New Delhi, India
Research Intern   *August 2019 - April 2020*
- Formulated a cross platform defect prediction software to predict defects in open source software using object oriented Understand software metrics.
- Mined raw data from over 20000 commits on GitHub repositories and generated object oriented software metrics
- Measured better defect prediction in 85% of the open source datasets used in comparison to existing methods.

The Energy and Resources Institute, TERI   New Delhi, India
Software Engineer Intern   *December 2019 - January 2020*
- Performed multivariate time series prediction of air quality index using neural networks and Tensorflow
- Achieved 93% accuracy in the trained model, outperforming the present models built using environmental factors.

TECHNICAL SKILLS

Programming Languages: C++, C, Java, Python, SQL, Bash, Git

Frameworks/Libraries: Scikit-Learn, TensorFlow, Pytorch, OpenCV, Data Mining, Machine Learning, Deep Learning, Natural Language Processing, Time Series, Android Development, Google Cloud Platform

Familiar: Docker, Kubernetes

PROJECTS

- **Image Captioning:** Developed a model for generating a textual description of an image based on the objects and actions in it. Technical stack used: Convolutional Neural Networks, Recurrent Neural Networks, Beam Search, Pytorch

- **Sentiment Analysis:** Made a deep neural network using Amazon-Review dataset which takes English texts and classifies it according to how positive the review is. Technical stack used: Random Forest, Naive Bayes, Pytorch

- **Spread on Hate Speech in Online Social Media:** Working on a project to identify Hate Speech in online Tweets, covering information from the COVID-19 infection.

ACHIEVEMENTS

- **Associate Android Developer - Google:** One of the 2600 developers around the globe who passed this certification, testing on various skills like Software Development, Debugging, Testing, Building User Interfaces, etc.

- **Facebook Udacity Scholar:** Selected as top 4% among 8000 global applicants. Selected in the top 10% for a Deep Reinforcement Learning Program. Selection skills included being innovative, productive and quick learning.

- **Event Head - Indian Game Theory Society DTU:** Led an organization of more than 10 events promoting game theory at over 7 Tier-I institutes in India.

COURSEWORK

Computer Science Theory Courses: Data Structures, Algorithm Design and Analysis, Machine Learning, Operating Systems, Database Management Systems, Compiler Design, Software Engineering, Computer Networks, Object Oriented Software Engineering, Software Testing, Software Project Management.