VIKRAM J. SHENOY

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EDUCATION

MUMBAI UNVERSITY, Thadomal Shahani Engineering College, Mumbai, India **May 2018**

- Bachelor of Engineering in Computer Engineering: **GPA: 3.63/4.0**

WORK EXPERIENCE

Technical Consultant, Annadhan Welfare Organization (Mumbai, IN) **Jan 2019 – Present**

- Working as a pro bono technical consultant towards the design and development of the official Annadhan application in collaboration with J.P. Morgan Chase & Co.
- Created a work flow for the application's functionalities in accordance to the organization's day-to-day operations.
- Designed a sleek, consistent and user friendly interface for the application.

Machine Learning Research Intern, University of Groningen (Groningen, NL) **Aug 2018 – Oct 2018**

- Performed an extensive analysis of the proposed feature selection algorithm as compared to existing feature selection methods such as Fisher Score, Generalized Matrix Learning Vector Quantization (GMLVQ), ReliefF and Boruta.
- Developed a new weighting scheme for the algorithm that considerably improved its performance and efficiency for larger datasets.
- Supervised by Prof. Dr. George Azzopardi at the Bernoulli Institute for Mathematics, Computer Science and Artificial Intelligence.

Software Engineering Intern, **Vroom Cars (Irvine, CA, USA)** **Feb 2017 – Aug 2017**

- Researched On-board Diagnostics Parameter IDs (OBD – II PIDS) - codes used to request data from a vehicle.
- Implemented an algorithm to extract and transform raw data received through a mobile application into structured format.
- Developed an automated software to convert the structured data from a local database into multiple user-friendly graphs.

PROJECTS

Digit Generation using Wasserstein Generative Adversarial Networks **April 2019**

- Trained a Wasserstein GAN (Generator Network and Critic Network) on the MNIST dataset using an estimate of the Wasserstein metric (Earth Mover distance) as the cost function.
- Generated digits (similar to MNIST dataset) by randomly sampling through a noise distribution and passing them through a generator network.

Twitter Sentiment Analysis using Recurrent Neural Networks **March 2019**

- Performed sentiment analysis on 1.6 million tweets using a Recurrent Neural Network with LSTM units and achieved a final accuracy of 84.57 % on the test set.

Neural Style Transfer **Feb 2019**

- Transferred the artistic style of one image onto another image using a pre-trained VGG19 network with Imagenet weights.

Intelligent Games, Final Year Project **April 2018**

- Developed an AI for chess and a famous tile puzzle game, 2048, using fundamental aspects of Game Theory.

Blue Scroll, Android Application **May 2017**

- Developed a news aggregation mobile application that uses an algorithm to parse over 50 different input streams from news APIs using JSON.

TECHNICAL SKILLS

- **Programming Languages:** Python (Expert), Java (Proficient), C (Familiar).
- **Frameworks and tools:** Keras, TensorFlow, Plotly, Android Studio.
- **Data-oriented Languages:** SQL, JSON.
- **Web Development:** HTML, CSS, PHP, JavaScript, Ajax.

EXTRACURRICULAR ACTIVITIES

Vice-President and Co-Founder, Rotaract Club of TSEC **Apr 2016 – June 2017**

- Collaborated with Making A Difference, a non-profit organization, for beautification of 36 railway stations across Mumbai.
- Awarded the TSEC Leadership Award in March 2018 for co-founding and heading the Rotaract Club of TSEC in its inaugural year.