Vedang Waradpande

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VedangW

Data Scientist at Razorpay.

Education

- **Birla Institute of Technology and Science, KK Birla Goa Campus**
  B.E.(Hons) Computer Science, CGPA: 7.82 *2015–2019*
- **PACE Junior Science College, Nerul**
  Higher Secondary Education, Score: 89.23% *2013–2015*
- **Apeejay School, Kharghar**
  High School (Class 10th), CGPA: 10.0 *2012–2013*

Technical Skills

- **Languages and Libraries:**
  Proficient. Python3, Scikit-Learn, Tensorflow, Keras, Numpy, Pandas, H2O, XGBoost, Matplotlib, Apache Airflow
  Intermediate. C, C++, Java, Scala, Go, Elixir
- **Technical Proficiency:** Machine Learning, Deep Learning, Data Science, Software Development, API Design, Object Oriented Programming, Functional Programming

Work Experience

- **Razorpay** **Bengaluru**
  Data Scientist *Jun 2019–Present*
  - Working on Thirdwatch, a Machine Learning-based solution to tackle e-commerce fraud such as Return to Origin (RTO), promo-code abuse, account takeover, etc.
  - Built an unique ML based solution for predicting if an Indian shipping address is complete enough for delivery using an ensemble of ConvNet and XGBoost and deployed it for production.
  - Built a framework for interpreting the address deliverability model and providing a reason for low confidence of delivery.
  - Worked on creating an ML model which provides a confidence score for an order resulting in a Return to Origin (RTO).
  - Worked on scaling ML pipeline using Apache Airflow and deploying ML models using Tensorflow Serve and H2O.
  - Working on problems such as Unique User Identification from user graph, correction of incomplete addresses and recommendation.

Nanyang Technological University, Singapore **Singapore**
Research Assistant *Jul 2018–Dec 2018*

- Used Graph Convolutional Network (GCN) based models for Drug-target Interaction Prediction and Virulence Prediction.
- Used data sampling techniques to improve upon two matrix completion models based on Graph Convnets to work better on sparse bi-partite graphs.
- Studied drug-target interaction, virulence prediction and associated techniques and models such as ensembling, Random Walk, etc.
- Worked with a research group of 12 members and learned about processes associated with research such as reading and writing papers and group discussions.

Institute of Seismological Research, Gandhinagar **Gandhinagar**
Research Intern *May 2017–Jul 2017*

- Used traditional Machine Learning models such as SVM and Ensemble learning to classify ground motion signals as earthquake or blast generated.
- Created a Command Line program for this classification currently being used at the institute.
- Used Python 3 and several ML-based and Signal processing libraries such as Scikit-Learn, Obspy, etc.

Projects

VisualNN
Python, Software Development *Jan 2019–May 2019*

- Involves creating a visualization of the architecture of a standard or custom Neural Network input by a user or animating the propagation in standard models.
- Uses the Plotly library in Python to create the visualization or animation.

Sleep Detection using Wifi Signals
Signal Processing, Machine Learning *Dec 2017–Present*

- Based on using WiFi signals to detect sleep and stages of sleep by employing Machine Learning techniques.
- Involved collecting data and preprocessing using various signal filters.

Extractive Email Summarization
Natural Language Processing, Deep Learning *Dec 2017–May 2018*

- Used an LSTM network for extractive summarization of e-mails.
- Learned about deep neural networks that work on NLP including RNNs, GRUs and LSTMs.

Devanagari Character Recognition
Computer Vision, Image Processing, Deep Learning *Sep 2017–Dec 2017*

- Involved using Convolutional Neural Networks to create an Optical Character Recognition program for Devanagari characters.
- Used OpenCV for preprocessing and Keras for building the model.

Transport Scheduler
Functional Programming, Software Development *Aug 2017–Dec 2017*

- Involved building a transport network and returning a set of feasible itineraries based on a given user query.
- Implementation was done using Elixir, a functional programming language based on concurrency.

Positions of Responsibility

- **Teaching Assistant**
  Neural Networks, Digital Design *Aug 2017–Dec 2017, Dec 2019–May 2019*
  - Was the teaching assistant of the course Digital Design (CS F215) in college.
  - Was the teaching assistant of the Neural Networks (BITS F373) course which included preparing lab questions and teaching and guiding students in the course.

Miscellaneous

- Mentored a course on Introductory Machine Learning organized in the summer of 2018 with over 150 students from different colleges in India.
- Completed the Nettech Workshop on Networking and Hacking organized at BITS Goa in 2016.