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ROHAN VARDHAN

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EXPERIENCE

Graduate Research Assistant **CREOL, University of Central Florida, FL** **May 2017 – Present**

- Developed generative models in Python and Keras (TensorFlow) to restore the quality of image in image transmission experiments
- Designed machine learning models to reduce the OSNR in SDNs and improve the performance
- Automated the tapering and splicing process by developing software in Python
- Reduced overhead time by 40% over the time required to achieve the process manually
- Developed and delivered cross-platform training modules in Python

Visiting Research Assistant **Nokia Bell Labs, NJ** **June 2017 – July 2017**

- Created deep learning models using Python and Keras (TensorFlow) to improve the quality of mammograms and dental X-rays; Accepted and recognized by Dr. Nicolas Fontaine
- Assisted Dr. Nicolas Fontaine in calibration of LCoS-SLM using Python
- Delivered talk on 'Overview of Machine Learning' at Holmdel location

Graduate Research Assistant **CRCV, University of Central Florida, FL** **Sept. 2016 – Nov. 2016**

- Handled automatic image captioning project for Dr. Boqing Gong
- Led a team of 4 to successfully train and test more than 60000 images using Python and MATLAB

EDUCATION

Orlando, FL **University of Central Florida** **July 2016 – May 2018**

- Master of Science in *Computer Engineering*, May 2018 (Expected)
- Relevant Coursework: Data Mining Methodology, Independent Study, Computer Vision, Random Processes
- MOOC: Machine Learning (Coursera), Machine Learning A-Z (Udemy), Data Science A-Z (Udemy), Scala and Spark for Big Data and Machine Learning, Deep Learning specialization (Coursera), Python for Data Structures and Algorithms (Udemy)

India **National Institute of Technology, Warangal** **July 2012 – May 2016**

- Bachelor of Science in *Electronics and Communication Engineering*

RELEVANT PROJECTS

- **Talent Ledger** (2017). Created a resume classifier using Google Cloud Natural Language API and Ethereum blockchain; Designed a web app using Angular and NodeJS
- **House Price Prediction** (2016). Employed ensemble Lasso regularization and XGBoost to predict house prices using Python; Secured rank 142 out of 2249 (top 7%) on the Kaggle leaderboard
- **Forward Collision Warning (FCW) using Machine Learning** (2017). Designed a system using decision trees to generate alerts for cars within warning range; Improved the performance by 15% over the traditional CAMP Linear algorithm

SKILLS

Programming Languages: Python (NumPy, Pandas, Matplotlib, Plotly), SQL, C++, MATLAB, R
Machine Learning Libraries: Scikit learn, TensorFlow, Keras
Data Visualization: Tableau, MicroStrategy
Machine Learning Software: Gretl, SAS

ACHIEVEMENTS

- **Secured 1st place in Royal Bank of Canada-Microsoft Hackathon** (2017) – Created a profit-based recommendation model to trade cryptocurrencies using Facebook Prophet and Plotly; Developed a web app using Angular and NodeJS, Deployed the app on Microsoft Azure
- **Secured 4th place in Orlando Smartest City Hackathon** (2017) - Created a forecasting model for variable toll prices to maintain traffic load balance using Python and MicroStrategy