CHIRANJEEVI VEGI

✉ vegi@umich.edu 🌐 www.chiranjeevivegi.com 📞 +1 (734)-881-0646 📍 Arlington, Texas in chiranjeevivegi cjvegi

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EDUCATION

Springboard
Data Science career track 2018
Mastering the data science process, from statistics and data wrangling, to advanced topics like machine learning and data storytelling, by working on real projects

University of Michigan, Ann Arbor
Masters Mechanical 2017
Emphasis on Data science in Manufacturing
Coursework: Linear Algebra, Calculus, Matrix Algebra and Applications, Probability and Statistics, Machine Learning

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EMPLOYMENT

School of Nursing, University of Michigan, *Research Assistant*, Ann Arbor, US   Dec 2017 - Current
1. Worked on data analytic projects for Statistics Online Computational Resource (SOCR), part of University of Michigan School of Nursing
2. Deployed findings from health science-related projects and statistical tools on SOCR for educational purposes.

University of Michigan and Ford Motor Company, *Graduate Student Researcher*, Livonia, US   Feb 2017 - Dec 2017
1. Worked on finding hidden patterns from plant floor manufacturing data of 8.98 GB to enhance plant productivity
2. Leveraged insights from data to build a better manufacturing simulation model. Project Poster.
3. Model simulation showed 2% increase in manufacturing productivity per day.

PepsiCo, *Assistant Production Manager*, Bengaluru, India   Jun 2014 - Mar 2016
While working in PepsiCo, I led a team of 300 people. During this phase using historical data,
1. Evaluated and improved manufacturing methods which increased net efficiency by 5.2%
2. Investigated equipment failures to diagnose faulty operation and made appropriate maintenance recommendations which resulted in downtime reduction of 13%

SKILLS

LANGUAGES: Python, R, HTML &CSS (some exposure)
MACHINE LEARNING: scikit-learn, TensorFlow, Keras, Tensorboard, NLP, CNN, Deep Learning
VISUALIZATION: Tableau, matplotlib, seaborn, ggplot
DATA: SQL, Webscraping, Pyspark

PROJECTS

Toxic Comment Classification Challenge   Dec 2017 - Apr 2018
1. Built a multi-headed model that's capable of detecting different types of toxicity like threats, obscenity, insults, and identity-based hate using comments from Wikipedia talk edits (Dataset: Kaggle)
2. Deployed trained machine learning model online for testing and gathering more data
3. Finished in the top 16% on the Kaggle Leaderboard with mean column-wise Area Under Receiver Operating characteristic curve (AUROC) of 0.9863 while winning model's AUROC is 0.9885

Data storytelling: Kaggle ML and Data Science Survey, 2017   Jan 2018 - Feb 2018
1. Examined kaggle survey of over 16000 responses on the state of data science and machine learning by people working or interested in the data science field (Dataset: Kaggle)
2. Examined and visualized over 100 questions ranging from programming language to the future of data science
3. Presented report on the various inferences drawn in multiple data science meetup's

Visualization of extremely high-dimensional neuroimaging and phenotypic data using TensorBoard   Dec 2017 - Feb 2018
1. Examined thousands of features (3,300), to predict specific clinical outcomes (Dataset: UK Biobank)
2. Determined the most salient features associated with computable clinical phenotypes and interpreted the joint data holistically, in a lower dimensional space using deep learning techniques.

Porto Seguro's Safe Driver Prediction   Oct 2017 - Nov 2017
1. Built model to predict if a driver will file an insurance claim next year (Dataset: Kaggle)
2. Finished in top 17% on the kaggle Leaderboard with Normalized Gini Index(NGI) of 0.28986, while winning model's has NGI of 0.2968

BLOGS AND CERTIFICATES

1. Published data science articles on Medium and SOCR

2. Obtained Data Science Certificates from online platforms namely DataCamp, Coursera, edX and Udemy