



Udit Ennam

10 Commercial Avenue, New Brunswick, NJ

 uditennam  uditennam

 uditennam.github.io

+1(848)-391-3524

 ue15@scarletmail.rutgers.edu

Education

- **Rutgers University** **New Brunswick, NJ, USA**
Master of Science, Data Science, CGPA: 3.42/4.0
Sep 2017 - May 2019
 - **Gandhi Institute of Technology and Management** **Visakhapatnam, Andhra Pradesh, India**
Bachelor of Technology, Electronics and Communications Engineering, CGPA: 8.4/10
Jul 2012 - May 2016
- Relevant Coursework:** Artificial Intelligence, Math for Data Science, Deep Learning, Data Mining, Data Wrangling with R, Data Structures & Algorithms, Data Visualization, Probability & Statistics, Web Technologies, Computer Networks, Computer Architecture.

Work Experience

- **Wireless Information Network Laboratory** **New Brunswick, NJ, USA**
DATA SCIENCE RESEARCH INTERN
May 2018 - Aug 2018
Tools/Technologies used: Python, Spark, D3.js
 - Integrated data sources from Cornell, National Institute of Health and WINLAB gathering over 100GB of data to work on the calibration of ammonia sensors for animal cages.
 - Confirmed a hypothesis using the Pearson's correlation coefficient and reduced the previous model error by 2.14% through finding hidden variable dependencies affecting the target value and predicting the drift in ammonia sensors using Random Forests model.
 - Forecasted ammonia readings on a time-dependent subset using ARIMA model with an RMSE of about 1.9ppm.
- **HopinTown Inc.** **Mumbai, India**
WEB DEVELOPER & ANALYTICS INTERN
Jul 2016 - May 2017
Tools/Technologies used: JavaScript, Tweepy, Google Analytics, .NET, MySQL
 - Boosted the customer acquisition rate by 30% through finding key performance indicators via Facebook and Twitter social media analytics to tailor the offers and services provided to the customers.
 - Spearheaded the web development team in revamping the mobile/web application, building app landing pages as referral programs and collaborated with the marketing team to make it SEO-friendly.
 - Built customizable dashboards for reporting, prototyped about 10 new features and improved customer sales by 42%.
- **National Small Industries Corporation Ltd.** **Hyderabad, India**
DIGITAL IMAGE PROCESSING INTERN
Apr 2015 - Jul 2015
 - Constructed a model bank authentication system secured against forgery of signatures and fraudulent transactions through an algorithm using binary images of account holder's signature via image segmentation and visual cryptography with MATLAB.

Technical Skills

- **Languages:** Python, R, SQL, JavaScript, Java **Operating Systems:** Windows, Linux, Mac
- **Libraries:** Numpy, Pandas, Scipy, Matplotlib, Seaborn, NLTK, Scikit-learn, Keras, MLlib
- **Tools/Frameworks:** Tableau, D3.js, Excel, Git, Docker, AWS, GCP, Hadoop, Spark, HTML5, CSS3, jQuery, Bootstrap, MySQL, MongoDB

Key Projects

- **Revenue Predictor (Python, Dask, Google Cloud Compute, Flask)**
Deployed a machine learning model which combines Logistic Regression and Stochastic Gradient Descent Regressor trained on customer data with 98% null entries to predict the revenue generated by a customer.
- **Mazerunner AI (Python)**
Constructed and solved mazes using DFS, BFS and A* search algorithms and generated harder mazes using genetic algorithm.
- **Hurricane Analysis & Visualization (R, R Shiny)**
Analyzed NOAA datasets and visualized to identify a link between hurricane occurrences with the time of the year and cyclone basins.
- **Cancer Gene Identification (R)**
Generated a False Discovery Rate program using Benjamini Hochberg procedure to identify genes with enhanced and suppressed cancerous activity with the help of test-statistic.
- **Abstractive Headline Generator (Python, Keras)**
Built a Sequence-to-Sequence LSTM with attention to generate headlines and optimized it using SGD and Adam's optimizer.