

# Udit Ennam

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## 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.