



# Udit Ennam

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## Education

### • Rutgers University

Master of Science, Data Science, CGPA: 3.42/4.0

**New Brunswick, NJ, USA**

Sep 2017 - May 2019

**Relevant Coursework:** Machine Learning, Databases, Computers in Biomedicine, Artificial Intelligence, Math for Data Science, Deep Learning, Data Mining, Data Wrangling, Data Structures & Algorithms, Probability & Statistics, Visualization, Computer Architecture.

## Work Experience

### • Amazon.com Inc.

SOFTWARE DEVELOPMENT ENGINEER

Tools/Technologies used: Java, AngularJS, S3, DynamoDB, RDS

**Seattle, WA, USA**

Aug 2019 - Present

- Developed full-stack internal tools to reduce the existing manual workload and take 95% less time to launch changes to production.
- Impacted about 2.3 million product titles across the Amazon catalog by resolving high severity configuration issue.
- Collaborated with cross-functional teams to build a scoring system for product titles required for precision measurement of the in-house tagging system.
- Evaluated an existing service mechanism which performed strict value matching by building a Management Portal and Hotspot Reporting tool, which laid a foundation towards prototyping an NLP model for long-term feasibility.
- Tracked service deployment times and migrated pipelines to Full CD without the need for manual approval workflows, in turn reducing about 75% of the overall deployment time to production.
- Actively worked on operational duties, performed code reviews and testing, created design/SOP documentations, participated in mentoring.

### • School of Arts and Sciences, Rutgers University

PART-TIME LECTURER/TEACHING ASSISTANT

Tools/Technologies taught: Python(Jupyter Notebook), HTML, CSS, JavaScript, Scratch, GSuite, Excel

**New Brunswick, NJ, USA**

Jan 2018 - May 2019

- Taught undergraduate CS courses: CS439 (Introduction to Data Science), CS110 (Introduction to Computers and their Applications), CS170 (Computer Applications for Business) which also included conducting and grading quizzes, exams, and assignments.

### • Wireless Information Network Laboratory

DATA SCIENCE RESEARCH INTERN, PROJECT WAS IN COLLABORATION WITH CORNELL UNIVERSITY AND NIH

Tools/Technologies used: Python, SciPy, Google Colab, D3.js

**New Brunswick, NJ, USA**

May 2018 - Aug 2018

- Integrated various data sources gathering over 100GB of data to work on the calibration of ammonia sensors for animal cages.
- Reduced the previous model error by 2.14% through finding hidden variable dependencies by performing Pearson's and Spearman's correlation coefficient tests affecting the target value and predicting the drift in ammonia sensors using Random Forests model.

### • HopinTown Inc.

DATA ANALYST

Tools/Technologies used: Python, MySQL, Google Analytics, Tableau

**Mumbai, India**

Jun 2016 - May 2017

- 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.
- Built customizable dashboards for reporting, prototyped about 10 new features and improved customer sales by 42%.

## Technical Skills

• **Languages:** Python, Java, SQL, JavaScript

**Operating Systems:** Windows, Linux, Mac

• **AWS:** S3, RDS, DynamoDB, ECS, CloudFormation, CloudWatch, QuickSight, Athena, SNS, SageMaker, CostManagement

• **Frameworks/Libraries/Tools:** AngularJS, Servlets, JUnit, Mockito, Pandas, Matplotlib, Scikit-learn, Keras, Tableau, D3.js, Git, Docker, Flask, Postman

## Key Projects

### • Revenue Predictor ( Python, Plotly, Scikit-learn, 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.

### • 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.