Sai Tanushree Nori

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA CHAMPAIGN
Masters in Statistics
Aug 2017 – May 2019
Cum. GPA: 3.7

PES UNIVERSITY IN BANGALORE, INDIA
BS in Electrical Eng.
Aug 2011 – May 2015
Cum. GPA: 3.6

COURSEWORK

GRADUATE
Advanced Machine Learning
Big Graphs & Social Networks
Deep Learning
Applied Bayesian Statistics
Monte Carlo Statistical Methods
Corporate Finance
Applied Regression Methods
Natural Language Processing

UNDERGRADUATE
Data Structures
Control Systems
Image Processing
Embedded Systems
Linear Algebra

CERTIFICATIONS

Coursera
Getting and Cleaning Data
Reproducible Research
Statistical Inference
Regression Models

SKILLS

PROGRAMMING
R • Python • • Matlab • SAS

DATABASES
Hive • SQL • Hadoop • Spark

VISUALIZATION
• RShiny • ggplot2 • Tableau

LIBRARIES & TOOLS
• Apache Airflow • scikit-learn • NLTK
• Git • Bash • Docker • AWS
• Pytorch

WORK EXPERIENCE

EXPERIAN | Data Scientist
Aug 2019 – Present | Indianapolis, IN
- Developed KPIs to quantify the impact of newly launched product - Experian Boost, on consumers and lenders
- Building and monitoring ETL workflows using Pyspark and Apache Airflow

AXIS CAPITAL | NLP Intern
October 2018 – Jan 2019 | Champaign, IL
- Automated extraction and analysis of key information from 100s of PDFs pertaining to insurance risk using NLP methods

ZURICH NORTH AMERICA | Predictive Analytics Intern
May 2018 – Aug 2018 | Schaumburg, IL
- Identified triggers indicating fraudulent behavior in insurance premiums using anomaly detection methods
- Deployed an R Shiny dashboard with Docker to present leads from above analyses to premium audit teams

MU SIGMA INC. | Decision Scientist
Aug 2015 – June 2017 | Bangalore, India
- **Revenue Forecasting:** Enabled optimum resource allocation by predicting quarterly revenues using Seasonal ARIMA modelling
- **Recommendation Engine:** Built a collaborative filtering & cosine-similarity based recommender system to enable product suggestions with 75% accuracy
- **Client Prioritization Model:** Flagged high priority customers by building a multiple linear regression model to determine their likelihood of purchase
- **Clustering methods:** Bench marked clients' salesperson performance for incentive schemes using hierarchical clustering

RESEARCH & PROJECTS

VIDEO AS A SENSOR | Graduate Research Mentor
UIUC | National Center for Supercomputing Applications
Computer vision project under Dr. Richard B. Sowers & Dr. Daniel Work.
- Led a team of 7 undergrads in implementing context-aware object tracking using 'You Only Look Once'- a 24-layer CNN to detect threats to road users
- Ported the algorithm to an NVDIA Jetson X2 Embedded system for efficient computation and ease of use

NEURAL IMAGE CAPTION GENERATOR
UIUC | Deep Learning Project
- Built a generative model using deep recurrent architecture to automatically describe the contents of an image
- Achieved this by training a Convolutional NN as an image encoder and used its output as input to an LSTM decoder that generates sentences

GRAPH BASED RECOMMENDER SYSTEM
UIUC | Big Graphs & Social Networks Project
- Explored a graph-based approach with community detection to serve unique recommendations from Amazon's 20GB product review data
- Designed a network that was highly scalable and efficient with recommendation lookups 3x faster than traditional systems