Kartik Choudhary

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RESEARCH INTERESTS

- Natural Language Processing
- Reinforcement Learning

- Explainable Al
- Robotics

EDUCATION

Indian Institute of Technology Delhi, New Delhi, India

Jun 2019 GPA: 7.327/10.0

Bachelor of Technology, Electrical Engineering

Advisor: Prof. Seshan Srirangarajan

B.Tech. Thesis: Occupancy Learning in Commercial Spaces

Predicting room occupancy in institute's Lecture Hall Complex to automate HVAC system and improve room booking system.

Projects

• Signal and Noise Analysis

Instructor: Prof. Seshan Srirangarajan
Estimating range and velocity of target in noisy environment using correlation processing and end-point detection.

• Classification and Clustering Algorithms Instructor: Prof. Sumeet Agarwal Comparative analysis of models implementing SVM, CNN and Sparse Autoencoders on MNIST dataset.

Relevant Courses

- COL106 Data Structures and Algorithms
- MTL106 Probability and Stochastic Processes
- MTL101 Linear Algebra and Diff. Equations
- ELL784 Intro. To Machine Learning

WORK EXPERIENCE

Reliance Jio, Mumbai, India

Jul 2019 - Present

Received highest performance feedback rating (A*) for FY 2019-20 and 2020-21

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ML Engineer Jun 2021 - Present

- Improved root cause analysis on call mutes by implementing an explainable/interpretable model for network quality based on user hardware data and RF conditions.
- \bullet Improved network quality forecast accuracy by 15% by implementing a Mixture of Experts model
- Built automated system for network improvement strategies including antenna tilt optimization and tower placement planning
 Data Scientist

 Aug 2019 Jun 2021
 - Created customer churn prediction model with over 600 features improving marketing campaign delivery
 - Reduced model inference time by 25% by reducing ingestion overheads and streamlining customer profiling pipeline
 - Implemented A/B testing of campaigns on geographic cohorts reducing the 95% confidence interval estimates by 10%
 - Unified the marketing campaigns and churn risk mitigation pipeline through a central Customer360 database reducing memory and computation costs.
- Worked with external vendor to implement their management and visualization solutions into the Customer360 database
 Graduate Engineering Trainee

 Jul 2019 Aug 2019
 - Customer segmentation for behaviour modelling and creating intent based features
 - Won Best Project among 20+ teams.

Claym Media and Tech. Pvt. Ltd., Gurgaon, India

May 2018 - July 2018

Intern - New Technologies

- Created utility to standardize reports and perform data correctness checks on reports coming from different platforms.
- Developed framework to detect fraud techniques like Click Spamming, Fake Attribution and Country Conflict.
- · Created a GUI enabling Operations Team to use the report standardization and fraud detection tools

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Voxomos Systems Pvt. Ltd., Gurgaon, India

May 2017 - July 2017

Intern - NLP Research

- Implemented an LSTM Recurrent Neural Network to train a chat-bot with the ability to retain context
- Extracted a large corpus from Twitter with 5M publicly available tweets and their replies for training the chat-bot
- Tested and benchmarked effects of various regularization methods such as dropout and early stopping on performance and training stability.

SCHOLARSHIPS AND AWARDS

1. Best Mentor - EES, IIT Delhi, India	2018
Award for contributions during the year 2017-18 by the Electrical Engineering Society	
2. KVPY Fellow	2014
Eligible for scholarship under Kishore Vaigvanik Protsahan Yojana (KVPY) conducted by IISc. Bangalore. India	

TEACHING AND LEADERSHIP

Sep 2020
Aug 2017 - Jul 2018
Aug 2017 - Jul 2018

SKILLS

Programming Language	s Python, C, C++, Java, SQL, MATLAB, R
Tools	TensorFlow, PyTorch, OpenCV, NLTK, spaCy, Spark, Airflow
Languages	English (Fluent), Hindi (Fluent/Native), Japanese (Elementary)

CERTIFICATES

 Probabilistic Graphical Models Specialization A 3 course specialization by Stanford University on Coursera 	Sep 2021
 Generative Adversarial Networks (GANs) Specialization A 3 course specialization by DeepLearning.Al on Coursera 	Jun 2021
 Natural Language Processing Specialization A 4 course specialization by DeepLearning.Al on Coursera 	May 2021

TEST SCORES

JEE (Advanced) 2015	National rank 321 in the final stage out of 150k total candidates
GRE General Test	Total score $0/340$. Verbal - $0/170$, Quantitative - $0/170$, AWA - $0.0/6.0$
TOEFL iBT	Total score $114/120$. Reading - $30/30$, Listening - $30/30$, Speaking - $26/30$, Writing - $28/30$

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