

# Ankit Agrawal

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## PROFESSIONAL EXPERIENCE

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### Data Science Mentor

Great Learning

12/2021 – present

Remote

- Mentored over 100 students in collaboration with MIT for Applied Data Science Program (ADSP) and Data Science and Machine Learning (DSML) program.
- Instructed 38 cohorts with an average feedback rating of 4.7/5.
- Topics include Hypothesis Testing, Regression, Classification, Deep Learning, Recommender Systems, Time Series Forecasting, Graph Neural Networks, AutoML tools.

### Data Scientist

Aakash 88 LLC

11/2019 – 08/2021

Texas, USA

- *Increased annual profits by 13%* by deploying time series models to forecast hourly load capacity and energy price for 150 wind farms in Texas to perform energy trading.
- Reduced manual analysis time by 35% through automation.
- Increased the volume of daily trades by monitoring and updating features in real time.

### Machine Learning Researcher

The University of Utah

01/2017 – 08/2019

Salt Lake City, USA

- Reduced timeout errors by 23% across 14 benchmark categories.
- *Reduced type II error by 3%* across 14 categories by using AutoML and ETL data pipelines.
- Experimented on CHPC clusters to detect *optimal subspace* configuration using *local search algorithm* for SMACK parameters out of 5 billion possible configurations.
- Worked with SoarLab group under Prof. Zvonimir Rakamaric

## SKILLS

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### Programming

Python, SQL, R, C/C++, HTML/CSS

### Data Science

Forecasting, Time series analysis, Recommender systems, Fraud detection, Predictive modeling, Deep learning, Data mining, Data analytics, Visualization tools, Statistics, Linear algebra, Convex optimization, A/B testing

### Tools

Tableau, GitHub, AWS SageMaker pipelines, Docker, Kubernetes, AutoML, Jupyter-notebooks

### Python libraries

scikit-learn, scikit-surprise, TensorFlow, PyTorch, OpenCV, Beautiful Soup, Facebook Prophet, nltk

## PROJECTS

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### NLP Projects

- SARAH: Developed a personal voice assistant with trigger word detection using attention based model.
- Convert human readable dates into machine readable dates using seq2seq model.
- Generate new jazz music using attention based model.
- Built character level language model to generate new names.
- Add appropriate emoji to text messages based on context using attention based model.

### CNN Projects

- Generate new art using neural style transfer learning.
- Autonomous driving car detection using YOLO model.
- Facial expression recognition and verification model.
- Google Landmark recognition using multi-layer transfer learning model.
- Self driving car speed prediction using LSTM-CNN model.

## EDUCATION

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### MS, Computer Science

University of Utah

12/2016

Utah, USA

## CERTIFICATES

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### Deep Learning Specialization

deeplearning.ai

### Google Data Analytics specialization

Coursera

### Mathematics for Machine Learning

Coursera