

Ankit Agrawal

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PROFESSIONAL EXPERIENCE

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.

SKILLS

Programming

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

Python libraries

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

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

PROJECTS

SV-COMP classifier

- Increased classification accuracy to 98.3% from 67% accuracy.
- Achieved 3x speedup in runtime compared to previous implementation.
- Performed feature engineering, deployed classification trees-based model to classify the programs into appropriate SV-COMP benchmark categories for 10,000 C-programs (or 10 million lines of code).

Self driving car speed prediction

- Achieved MSE < 10 by implementing a CNN - LSTM regression model to predict speed of the car.
- Utilized a train video with 25,000 frames and speed of car at each frame, for a test video with 8,000 frames.

EDUCATION

MS, Computer Science

University of Utah

12/2016

Utah, USA

CERTIFICATES

Deep Learning Specialization

deeplearning.ai

Google Data Analytics

specialization

Coursera

Mathematics for Machine Learning

Coursera