

Devanshu Desai

Ranked #1 Python Programmer on HackerRank



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EDUCATION

UNIVERSITY OF CALIFORNIA BACHELOR OF SCIENCE IN DATA SCIENCE

Magna Cum Laude
Cum. GPA: 3.87 / 4.0
Major GPA: 3.96 / 4.0

SKILLS

Expert

Python • SQL • Apache Airflow • Spark •
Hadoop •

Proficient

Java • C++ • React •

COURSEWORK

GRADUATE

Recommender Systems
Advanced Deep Learning
Computational Evolutionary Biology
Probabilistic Graphical Models

UNDERGRADUATE

Computer Vision
Scalable Systems For Data Analytics
IoT Systems For Data Analytics
(Quarter-long project)
Theoretical Foundations of Data Science
(Teaching Assistant x7)
Data Structures And Algorithms
(Teaching Assistant x1)

ACHIEVEMENTS

COMPETITIVE ML

Winner - Semi-Supervised MNIST
(Kaggle)
Winner - UCSD Datathon 2021

COMPETITIVE PROGRAMMING

Rank 1 - HackerRank Python Challenge

SCHOLARSHIPS

Undergraduate Research Scholar -
Halicoglu Data Science Institute
Provost Honors - UCSD
Magna Cum Laude - UCSD

PUBLICATIONS

Dive Into Data Science

EXPERIENCE

META DATA ENGINEER [ONSITE]

Jul 2021 - Present | Menlo Park, CA

- Formulated new metric calculation procedures saving the company **\$8 million dollars/year** in human review costs
- Optimized key company dashboards bringing average latency down from **45s to 3s**
- Simplified DAG size for ETL pipelines down from **1500 tasks to 100 tasks** saving compute costs + debugging time

NANOME INC. MACHINE LEARNING INTERN

Jan 2020 - Present | San Diego, CA

- Developed a novel deep-learning-based approach to address the company's voice recognition needs.
- Pioneered an alpha build for the company platform's 1st attempt at a voice command assistant for the platform.
- Reduced server latency for voice responses by 75% compared to on-device recognition for Oculus devices.
- Improved command hit rate by 12% using an implementation of **LSTM-based DeepSpeech** and **BERT embeddings**.

METRIM DATA DATA SCIENTIST

Nov 2017 - Oct 2019 | San Diego, CA

- Devised a novel method using **Recurrent Neural Networks** and **Variational Autoencoders** for target prediction.
- Optimized our inference models to run on **Google Cloud TPUs** instead of multiple GPUs
- Observed a 4x improvement in inference times and a 3x speedup in training times as a result of the aforementioned optimizations.
- Engineered end-to-end data ingestion and **ETL pipeline** to run on 10 TB of data from the Common Crawl dataset.
- Extracted features for lead prediction were stored in a MySQL database to be queried with a **REST API** by our front-end.

RESEARCH

MCAULEY LAB UNDERGRADUATE RESEARCH SCHOLAR

Dec 2020 - Present | San Diego, CA

- Optimized Recommender Systems to using Facebook AI Research's state of the art benchmarking platform.
- Mentored under **Julian McAuley**.

SU LAB | RESEARCH ASSISTANT

Jan 2020 - April 2020 | San Diego, CA

- Collaborated with post-doctoral researchers in **Hao Su**.
- Customized **Facebook AI Research's VoteNet** model to work on a custom dataset.
- Augmented the **PartNet** dataset to perform better with our model resulting in a 1.5% improvement in classification accuracy.