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++ • Javascript •

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 Engineer Intern
Jan 2020 - Mar 2021 | 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 1^{st} 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 Engineer [Part Time]
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 – Dec 2021 | 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.