Shrey **Dabhi**

Big Data · Full Stack Development · Machine Learning

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Summary

A passionate self-taught developer, with a knack for creating engaging user experiences and performant systems. Able to effectively leverage recent and emerging technologies to achieve the required functionalities.

Skills

Languages	Python, JAVA, SQL, Scala, JavaScript / NodeJS, Octave, Matlab
Big Data	Spark, Hadoop, Drill, Hive
ML / DL	Tensorflow, PyTorch, Scikit-Learn, NumPy, SciPy
Web Development	Django, Flask, React, Express

Employment History

Optum   *Hyderabad, Telangana*
Software Engineer   *Jul 2020 - Present*

- Migrated a set of batch jobs from mainframe to big data environment which lead to savings in operational costs
- Developed a tool to load binary data exported from mainframe systems into any modern database using Python
- **Tools & Tech:** Python, Spark SQL, Scala, Oozie, Kubernetes, Hadoop

Internships

Robert Bosch Engineering and Business Solutions   *Bengaluru, Karnataka*
Project Trainee   *Jan 2020 - Jun 2020*

- Built algorithms which surpassed performance of NumPy's implementation of eigen decomposition under certain constraints
- Built systems using quantum computing and quantum inspired classical algorithms
- Built algorithms which surpassed the performance state-of-the-art techniques in graph based machine learning
- Published 2 papers, filed 4 invention reports and released 1 software package on Python Package Index
- **Tools & Tech:** Python, Tensorflow, pandas, scikit-learn, SciPy, NumPy, Neo4J, Qiskit, Cirq, PyQuil, DWave Ocean

LetsNurture Infotech   *Ahmedabad, Gujarat*
Software Engineering Trainee   *May 2019 - Jul 2019*

- Worked on developing PoCs for potential and existing clients, and doing research and feasibility studies on leads for new project
- Projects undertaken include Visual Search, Virtual Try On, IoT in cricket, Food Classification, and Invoice Processing
- **Tools & Tech:** Python, Tensorflow, OpenCV, NumPy, Docker, Tesseract, InfluxDB, Grafana, NLTK

Taaraka Technologies   *Ahmedabad, Gujarat*
Machine Learning Intern   *Dec 2018 - Feb 2019*

Hasura Technologies   *Remote*
Product Development Fellow   *Dec 2017 - Feb 2018*

Education

Institute of Technology, Nirma University   *Gujarat, India*
B.Tech. in Information Technology   *August 2016 - July 2020*

- CGPA: 8.12 / 10

Research Papers

Eigenvector Component Calculation Speedup over NumPy for High-Performance Computing

Feb 2020

SHREY DABHI AND MANOJKUMAR PARMAR

- Available on arXiv: https://arxiv.org/abs/2002.04989
- Presented at 8th International Conference on Recent Trends in Computing (ICRTC 2020), proceedings to be published in Springer Lecture Notes in Networks and Systems (LNNS)

Virtual SAR: A Synthetic Dataset for Deep Learning based Speckle Noise Reduction Algorithms

Apr 2020

SHREY DABHI, KARTAVYA SONI, UTKARSH PATEL, PRIYANKA SHARMA AND MANOJKUMAR PARMAR

- Available on arXiv: https://arxiv.org/abs/2004.11021
- Dataset available on IEEE DataPort: https://dx.doi.org/10.21227/asth-ra98

NodeNet: A Graph Regularised Neural Network for Node Classification

Jun 2020

SHREY DABHI AND MANOJKUMAR PARMAR

- Available on arXiv: https://arxiv.org/abs/2006.09022

Projects

Rappel

HACKATHON | DIGITALOCEAN APP PLATFORM HACKATHON 2018   *Dec 2020 - Present*

- An idea management tool, inspired from kanban boards and integrated with GitHub

bsedata

OPEN-SOURCE   *Jun 2018 - Present*

- A Python library for extracting real-time data from Bombay Stock Exchange (India)
- PyPI: https://pypi.org/project/bsedata/

Django JWT Auth Server

OPEN-SOURCE   *Aug 2019 - Dec 2019*

- Improved efficiency of existing denoising using CNN. Successfully implemented residual learning networks

Count'em All

HACKATHON | JAMSTACK HACK 2018 | 2nd RUNNER UP   *Nov 2018 - Dec 2018*

- A simple app to count the number of people attending a gathering with the help of machine learning

Twitter Clone

INTERNSHIP   *Nov 2017 - Dec 2017*

- A replica of the user interface of Twitter's Android app with mock / hard-coded data whereever required

Courses

Jun 2020   **Deep Learning Specialization,** by deeplearning.ai

Aug 2019   **Secure and Private AI,** by Facebook

Feb 2019   **Machine Learning,** by Stanford University

Dec 2018   **Getting Started with Google Kubernetes Engine,** by Google Cloud