Kush Kothari

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EDUCATION

B.Tech. in Computer Engineering   2019 – 2023 | India
Veermata Jijabai Technological Institute

Higher Secondary Education   2017 – 2019 | India
Shree Tikamdas Purshottam Bhatia College of Science

WORK EXPERIENCE

Senior Analyst, Deutsche Bank (DWS Asset Management) ⧉ | July 2023 – Present
- **Tech Stack:** Typescript / Javascript, React, Java, Spring
- Built a real-time multi-screen dashboard that aggregates together information from multiple financial services. This significantly cut down turnaround time on equity-lending negotiations thereby increasing profits.
- Contributed to the building of an automated system responsible for automatically booking trades from the contents of BVI Excel Sheets sent on a monitored email inbox.

Google Summer of Code 2022 , CERN-HSF + Princeton (IRIS-HEP) ⧉ | July 2022 – Sep 2022
- **Tech Stack:** Python, Distributed Computing, dask, Uproot, PyData Stack
- Contributed features to Uproot, an I/O library responsible for streaming ROOT data to Python libraries.
- Integrated the newly developed Dask-Awkward Library into Uproot, thus allowing the users to have an easy API to read ROOT data into Dask-Awkward Arrays.
- Introduced a new "delayed" paradigm in Uproot that allowed physicists to operate complex data analysis pipelines in distributed settings or settings with limited compute and storage capabilities.
- Introduced a major version change to Uproot as a result of my work.

Machine Learning Intern, Nanyang Technological University, Singapore ⧉ | May 2022 – July 2022
- **Tech Stack:** Python, Tensorflow, Obspy, Matplotlib
- Streamlined the preparation, filtering and cleaning of large amounts of seismic data for further workflows.
- Implemented and compared the performance of statistical and machine learning tools like STA/LTA and PhaseNet in automatically identifying and labelling seismic waves.
- Analysed seismic time-series data and applied methods in picking P-Wave arrival times to the same.

Google Summer of Code 2021, Weecology Lab, University of Florida ⧉ | May 2021 – Aug 2021
- **Tech Stack:** Python, Django, PostgreSQL, Linux, Docker
- Worked on adding features to an open-source data-science oriented python library, Data Retriever, that automates data-science tasks like data download, installation into database management software, and its cleaning.
- Modeled and implemented a data set download and testing pipeline, that is responsible for the automatic installation and testing of data sets having spatial data in the form of vector or raster.
- Deployed the above pipeline on a Linux server through CLI so that it can be openly accessed by users of the library.
- Added 18 new spatial dataset testing scripts to the platform and added modular code that allows the efficient addition of many more.

PROJECTS

twAIn ⧉ | NLP, RNNs, LSTM Networks, Tensorflow, Keras, Python, Web Design, Sass
- Devised an AI agent, that writes a story based on a prompt of a particular length and genre provided by the user.
- Implemented and trained RNN, LSTM networks through Tensorflow and Keras and checked results.

CERTIFICATIONS

Google Cloud Professional Data Engineer Certification ⧉   Jan 2024