Aditya Dhookia

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Education

Indian Institute of Technology (BHU) Varanasi *Varanasi, India*
B.TECH IN ELECTRICAL ENGINEERING *July. 2017 - May. 2021*
- Cumulative Performance Index, CPI: **8.86/10.00**

Skills

Languages/Frameworks	C, C++, Scala, Python, Java, SQL, Solidity
Technologies	Angular, SpringBoot, Git, Tensorflow, Pytorch, Spark, Hadoop
Areas of Interest	Software Development, Big Data, Data Structures, BlockChain, Machine Learning, NLP, CV

Work Experience

Deutsche bank *India*
SENIOR ANALYST - TECHNOLOGY *July 2021 - Ongoing*
- Working on developing secure smart contract solutions for various use cases for firm.
- Developed Big data pipelines on Spark for critical feed enrichments for organization profit and loss data.
- Mentored 2 interns (10 weeks) to deliver a smart recruiter tool that aims end-to-end Resume Parsing and Finding Candidates for a Job Description using BERT.
- Developed a platform that can convert JSON/Avro format data to CSV/excel up to 20 lakhs rows of data, with the capability to perform SQL queries and integrated it with Hadoop storage.
- Developed a platform that processes a large amount of financial data and makes adjustments to the existing database.

Bosch Center for Artificial Intelligence *India*
R&D INTERN *Feb 2021 - July 2021*
- Developed algorithm for real time Fruit localization and counting which jointly optimize Spatial Localization Maps(SM) and Pseudo Centre Maps(PCM) within a single DNN. (**Work submitted in ICRA 2023).**
- Worked on the development of an algorithm for Instance Segmentation that Jointly Optimizes Spatial Embeddings and Clustering Bandwidth.

Kudos Finance and Investments *Pune, India*
R&D INTERN *July 2020 - Aug 2020*
- Designed and Built a custom OCR API to extract useful information from Pan Card and Aadhar Card.
- Used YOLOv3/YOLOv4 as a text detector and Tesseract as a text recognizer.

Changwon National University *Changwon, South Korea*
RESEARCH INTERN, SUPERVISOR: PROF. DR. OH SEOL KWON *May 2019 - July 2019*
- Implemented an efficient algorithm for real-time low-resolution face recognition based on Discriminant Correlation Analysis (DCA).
- Worked on solving airlight estimation problem using internal recurrence property of images for the task of image dehazing.

Projects

Ubiquitous Computing Lab : Research Assistant *IIT BHU, Varanasi*
SUPERVISOR: PROF. DR. HARI PRABHAT GUPTA, IIT (BHU) VARANASI *July 2019- Jan 2020*
- Developed a new algorithm for early stage dementia detection using Recurrent Neural Networks(LSTM and GRU).
- Our RNN based model **achieved new state-of-the-art performance on ARUBA Dataset**.
- Worked on Neuro-Imaging based approach for Dementia Detection and used Transfer Learning to overcome data insufficiency.

LOAD FORECASTING AND ENERGY OPTIMIZATION (B.TECH THESIS) *IIT(BHU), Varanasi*
GUIDE: PROF.SANDIP GHOSH (DEPARTMENT OF ELECTRICAL ENGINEERING, IIT (BHU) VARANASI *Jan 2020 - Dec 2020*
- Implemented different deep learning architectures for the hour-ahead electricity price prediction task.
- Compared the performance of both univariate and multivariate time-series forecasting on dataset consists of weather and energy features.

Honors and Achievements

2020	**Finalist,** Google's Build for Digital India	*India*
2017	**AIR 1081,** JEE Advanced.	
2017	**KVPY Recipient,** Kishore Vaigyanik Protsahan Yojna (KVPY) Fellowship.	*Govt. of India*