

KARAN ARORA

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WORK EXPERIENCE

Data Scientist MadrasMed

10/2020 - Present

Chennai, India

- Gave technical presentation to the CEO after designing extraction framework that crawled 150 websites and cleaned text data for over 40,000 hospitals.
- Statistical Analysis of massive data (10 Million tables) pre-prediction
- Implementing Natural Language Understanding model for hospital receptions
- Deployment on Amazon Redshift and EC2

QA Engineer - Machine Learning Domain Cybage Software

11/2018 - 10/2020

Pune, India

- Designed and implemented a complete user impersonation framework using python scripting and integrated Machine Learning with Keras (Run time 9 hrs)
- Data Cleaning & Building ETL Pipelines to *capture*, cleanse, transform, and route raw *data* to destination systems with SQL
- Worked to migrate production level software from Google Cloud to AWS EC2

Machine Learning Researcher Government of India (Delhi Metro Rail Co.)

06/2018 - 07/2018

New Delhi, India

- Data Mining for Noida City Centre Metro Line as research Intern
- Did a multivariate analysis of 10000+ values
- Used Machine Learning to give the route for Metro Line Pillars to Sector 62

Deep Learning Researcher Chung Cheng University & Ministry of Education, Taiwan

12/2017 - 03/2018

Chiayi, Taiwan

Implemented HDR to LDR image conversion with team as a research intern

- Fully Funded Deep Learning Research Internship in Taiwan
- Implemented HDR to LDR image conversion using GANs and Auto-Encoders
- Read multiple research papers, learned to implement them with my team

EDUCATION & PUBLICATIONS

Post-Graduate Diploma in Applied Statistics Meerut University

06/2020 - Present

- Learning Statistics with a practical approach to Machine Learning

Bachelor of Engineering (Computer Science) Chitkara University

07/2014 - 07/2018

- Computer Science major with minor in Artificial Intelligence

Aspect Based Sentiment Analysis Using Deep Learning International Journal of Science and Research

<https://www.ijsr.net/archive/v9i10/SR201028161702.pdf>

- I found that Bidirectional Transformers & Neural network perform

Viola Jones, Haar Cascade Along and Neural Networks International Journal of Trend in Scientific Research and Development (IJTSRD)

<https://www.ijtsrd.com/papers/ijtsrd35848.pdf>

- Viola-Jones for efficient face detection and recognition

SKILLS

AWS EC2, S3, Redshift

SQL, ETL, Tableau, Excel

Data Cleaning, Analytics

Sklearn, Numpy, Pandas

Data Mining, NLP

TensorFlow, Machine Learning

AWARDS | RECOGNITION

1st Prize Winner of Entrepreneurship Start-a-thon 2.0 (03/2021)

Among 450 participants in the national-level ideation challenge. Our Machine Learning model, with the use case of increasing attentiveness in students, won the 1st Prize.

Teacher at NGO Umeed (2017 - 2018)

Worked with the team and successfully conducted teaching sessions in New-Delhi and nearby areas.

Social Aid Work at NGO Adhvan Foundation (2014 - Present)

Volunteered to provide science books and also wrote regular assignments for young children to learn.

Secretary: Toastmasters Club (Pune NE) (2019 - 2020)

Managed administrative responsibilities and arranged group meetings

Organiser: National Level Cultural Fest "Explore" (2016)

Conducted the digital event with all the gaming activities and ensured fair play. Coordinated with a big team of 30+ members.

1st in District Level Football (DPS Team) (2009)

I played as a striker for my team. We went on winning the district level championship for Meerut District.

1st - 3rd Rank in Athletics (2009 - 2012)

Consistently won top 3 rank awards in men's race in school each year from 09 to 12

PERSONAL PROJECTS

Full Stack COVID Status Application (12/2020 - Present)

- Learning to maintain fully Interactive dashboards using Tableau
- Technology Used: Python, Flask, SQL, Tableau, ETL, Seaborn

Attention Analysis on Online Classes (07/2020 - 09/2020)

- Customised Transformers to detect face sentiment
- Mood analysis of a student via live webcam which later gave the attention score to tell result output of student's attentiveness.
- Technology Used: Deep Learning, BERT, Viola Jones, Numpy

CERTIFICATIONS

Tableau Integration with SQL and ETL

IBM Certified Machine Learning Engineer

Structuring machine learning projects - Deeplearning.ai

Neural Networks and Deep Learning - Coursera

Hyper-parameter tuning - Deeplearning.ai

ML, Data Science and Deep Learning | Python - Udemy