

KARAN ARORA

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WORK EXPERIENCE

Data Scientist Madras Medical

10/2020 - Present

Chennai, India

- Coded extraction framework that crawled 150 websites, mined and cleaned text data of over 10 Million words
- Statistical Analysis of massive data (10 Million tables) pre-prediction
- Worked on end to end hospital management software and built a deep learning module to predict patient's statistics

Quality Assurance Engineer (Machine Learning Domain) Cybage Software

11/2018 - 10/2020

Pune, India

- Designed and implemented a complete user impersonation framework using python (Run time 9 hrs)
- Data Cleaning & Building Pipelines to capture, cleanse, transform, and route raw data to destination systems
- Used Machine Learning for test data analysis

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

06/2018 - 07/2018

New Delhi, India

- Spatial Data Mining for Noida City Metro Line Expansion
- Did a multivariate analysis of 10000+ values
- Designed ensemble model to clean the data points

Deep Learning Researcher NCCU & Ministry of Education, Taiwan

12/2017 - 03/2018

Chiayi, Taiwan

- Implemented HDR to LDR image conversion with team
- Trained u-net like architecture with the curated dataset.

EDUCATION & PUBLICATIONS

Post-Graduate Diploma in Applied Statistics Meerut College

- (Ongoing, Online and Expected completion is in July 2021)

Bachelor of Engineering (Comp. Science) Chitkara University

07/2014 - 07/2018

- Computer Science major with minor in Artificial Intelligence

Aspect Based Sentiment Analysis for Users Review Dataset Using Deep Learning and BERT International Journal of Science & Research

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

- I found that proper annotation coupled with Bidirectional Transformers & Neural networks give a competitive accuracy

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>

- I found that Viola-Jones followed by Neural Nets, performed much efficient face detection and recognition

SKILLS

Numpy, Sklearn, Pandas

Python, Data Mining

Web Development, Debugging, Testing

ML Algorithms

Flask, Django, GIT, AWS EC2

Excel, SQL, Tableau

VOLUNTEER EXPERIENCE & AWARDS

Winner: Start-a-thon 2.0 (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.

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

Managed administrative responsibilities and arranged group meetings

NGO Umeed (2017 - 2018)

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

NGO Adhan Foundation (2014 - Present)

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

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.

Top 3 ranks awards in Athletics (2009 - 2012)

Consistently won top 3 rank awards in school each year from 09-12

District Level Football Winner (DPS Team) (2009)

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

PERSONAL PROJECTS

Speech to Text Conversion (05/2020 - 07/2020)

- Used Machine Learning to analyse speech & convert it to text
- Corrected errors in the speech after-text conversion using NLP
- Use Case - Getting Transcripts of Meetings or Interviews (For Ref.)

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

- Used Machine Learning Transformer BERT.
- Mood analysis of a student via live webcam which later gave the attention score to tell result output of student's attentiveness.
- Use case - Online Classrooms and Meetings invigilation

Image/Video Cartoon Converter (09/2020 - Present)

- Convert Image or video to a cartoon version.
- Model in consideration PCA, FCNN, Voila Jones, Haar Classifiers
- Use Case - Convert images / movies to fun animations

CERTIFICATIONS

IBM Certified Machine Learning with Python

Structuring machine learning projects - Deeplearning.ai

Hyper-parameter tuning & Regularization - Deeplearning.ai

Neural Nets and Deep Learning - Coursera

ML, Data Science and Deep Learning | Python - Udemy

Sentiment Analysis Using BERT

+ 7 More