CURRICULUM VITAE

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Work Experience :

07/2020 - present **Research Intern**

Indraprastha Institute of Information Technology, Delhi

- **Project:** Parameter Estimation in Multi-standard Wideband Receivers via Deep Learning.

04/2020 - 07/2020 **SDE Intern**

Innovaccer

- Worked on Telemed products with frontend on React.
- Integrating video calling feature using MS teams API.
- API and utility development on Django.

09/2019 - 06/2020 **Research Intern**

WowCheme

- Explored applications of machine learning in understanding catalysis for energy and chemical production.
- Successfully reviewed and summarized a few research papers.

07/2019 - 10/2019 **Software Developer Intern**

Rydeu.com

Ground transport and logistics solution company based in Germany

- Worked on Database design and their migrations.
- Designed multiple API endpoints and their integration.
- Integrated many services like mailing, logging, stripe, etc.

Publication:

- **Mohammad Ahmad, Mohammed Azhan, Mohammed Sajjad Jafri, "MeToo: Sentiment Analysis using Neural Networks (Grand Challenge)", IEEE International Conference on Multimedia Big Data 2020, DOI:10.1109/BigMM50055.2020.00079**

Accomplishments:

- **Regional(India) Winner - Prize worth $2000**
  Transfer learning model built using RoBERTa deployed on Heroku using Flask and React
  - **Facebook Developer Community Sep 2020 – Oct 2020**
  - **Sentiment analysis of IMDb movie review using RoBERTa.**
  - **Used transfer learning from RoBETa pre-trained weights.**
  - **Transfer Learning helps to improve model with 0.80 to 0.81 f1 scores.**
  - **Deployed on Heroku using React and Flask.**

Projects :

- **Code-ML** (01/2020 - present)
  A Machine Learning Blog, completely built from scratch. Since I had started learning ML and AI, I thought of sharing my knowledge. As we know, what is the best to learn and

remember ? is to teach others. It has almost all the features a traditional blog has like commenting, bookmark, likes, auth, etc.
Tech Stack - Node.js, React.js, Bootstrap, and PostgreSQL.

- **Face Recognition Using Tensorflow.js**
  A Web application to recognize faces and identify it, One can train it by entering the name and their pics in the browser, this is done by using Pre-trained model mobilenet_v1_1 from Tensorflow Hub. Demo

- **Reddit Flair Detection**
  Detection of popular Reddit flair on "**r/india/**" subreddit. This project includes data scraping, EDA, modeling, and Heroku deployment.
  Repository link.

- **Toxic Text Analysis Using Tensorflow.js**
  Web Application built on HTML, CSS, and javascript, which analyze toxicity in a given Text using a Pre-trained model from Tensorflow Hub. Demo

- **Alexa Skills: Web Scraping project, Python**
  Alexa skill which uses its python SDK, I used python script to scrapes data from Wikipedia. Second skill, which Guide users where they can visit in a particular city across India for this skill app I scrape data of different cities from various websites and structured it in a way that Alexa skill apps required. Link

Education/Qualifications:

2017-Present Jamia Millia Islamia, B.Tech Electronics and Communication Engineering (Currently Pursuing), 8.65 SGPA
2014-2016 Dev Samaj Modern School No-1,Senior School Certificate Examination(Class 12), 90.04%
2012-2014 Dev Samaj Modern School No-2,Secondary School Examination(Class 10), 8.8 CGPA.

Skills: C++, JavaScript, Python, Node.js, SQL/NoSQL, Flask, React js, Machine Learning.
Frameworks/library: Numpy, Pandas, Keras, sci-kit- learn, PyTorch, Tensorflow.

Certificates :

1) Deep Learning Specialization
   a) Learned about Deep and shallow Neural Networks.
   b) Learned all about activation function, optimization, regularisation, etc.
   c) Different strategies like dataset distribution, human-level performance, error analysis, etc.
   d) CNN, different architects of CNN like leNet, googLeNet, etc. And some object detection algo like yolo, etc.
   e) Learning about RNN, word embedding, sequence to sequence modeling, etc.
2) TensorFlow: Data and Deployment 4 course Specialization.
   a) Learned how to save models and use them in web and mobile devices.
   b) Learned about TensorFlow splits, tensorboard, and how to share pre-trained models with Tensorflow Hub.
   c) And how to create a data pipeline using TensorFlow.
3) Programming for Everybody (Getting Started with Python)

Languages: English, Hindi.
Interests: Programming, Video games, Table Tennis.