Hemant Jain

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EDUCATION

Indian Institute of Technology (IIT) Delhi, India *July 2017 - May 2021*
B.Tech in Electrical Engineering (Power and Automation)

SCHOLASTIC ACHIEVEMENTS

- **JEE Advanced** : Secured **All India Rank 832** among 0.25 million students *(2017)*
- **JEE Mains** : Secured **All India Rank 1000** among 1.3 million students *(2017)*

WORK EXPERIENCE

Navi Technologies, India | *ML Software Engineer* *June 2021 – Ongoing*

Sms Parser and Data Extraction
- Built **in house SMS Parser** that eliminated external dependency with Algo360 and saved significant cost
- Built sms variables generator for all sms categories which reduced TAT for sms vars generation by 50%
- Built full stack tagging portal using **Springboot** framework which is extensively used to tag sms templates
- Dropped sms processing latency from 1 min to 1 sec, and reduced cost from 30 crores to 1 crore per annum

Deep Learning Credit Risk Model
- Automated the feature engineering process eliminating human bias while creating manual features
- Reduced the data prep and model training time by 40% compared to existing credit risk model PRISM
- Using only 100 features in final layer, DL Model AUC was at par with PRISM which has 30000+ features
- Used ML architecture like **CNN, LSTM, word2Vec** to train and enhance the performance of model

Other Projects
- Developed big data pipelines on **Spark** for daily data prep job in a very clean, readable and modular way
- Designed modular codebase using **FastAPI** framework for building high performance and scalable service
- Built bank statement model using XGBoost which improved the overall approval rate by at least 50 bps
- Created ML system to rank phone numbers for successful connections, optimizing communication strategies

Times Internet Limited | *ML Software Engineer, Intern* *May 2020 - June 2020*
- Created Gender Prediction Model for segregating customers based on gender using their name/email
- Processed the given name / email address using n-gram suffixes and isVowel to generate features
- Used ML techniques like **Deep Learning, SVM** and achieved AUC of around 90% on new set of names

KEY PROJECTS

Grocery Store Website *September 2021 - November 2021*
- Built the backend **Restful CRUD API** with Springboot which was communicating to **Postgres** database
- Created React frontend UI with ReactJS, CSS, and integrated it with the Springboot based backend APIs
- Deployed this website using **AWS Cloud** along with the help of web serving software like **Apache, NGINX**

Machine Learning Projects *January 2020 - March 2020*
- Built a multi layer neural network for classification problem with support of flexible network structure
- Trained **SVM** for binary and multi class classification using LIBSVM, improved performance by using **PCA**
- Implemented basic **linear regression** and **K-Means** algorithms for regression and **clustering** problems

Basic Search Engine *September 2018 - October 2018*
- Devised basic search engine using Inverted Indexing; employed HashMapping and **AVL** trees for faster results
- Applied Ranking Algorithms to achieve sorted display of webpages that were obtained on submitting queries

Mobile Phone Tracking System *August 2018 - September 2018*
- Mimicked the exact elaborate technology behind making phone calls functional using tree data structure
- Implemented hierarchical call routing structure consisting of central server, phone towers and mobile phones

TECHNICAL SKILLS AND COURSEWORK

Programming Languages: Java, Python, Scala, SQL, C++, C, JavaScript
Software Tools and Libraries: SpringBoot, Tensorflow,Spark, Keras, Flask, FastApi, Databricks, Maven, Git, Scikit-learn, Visual Studio, Intellij Idea, ReactJs, NodeJs, Django, Apache, Nginx, MS Excel
Courses Done: Deep Learning, Intro. To Machine Learning, Data Structures And Algorithms, Computer Architecture, Intro. To Computer Science, Linear Algebra & Differential Equ., Calculus, Probability & Stochastic Pro., Signals & Sys.

EXTRA CURRICULAR ACTIVITY

- Represented Zanskar Hostel in Inter Hostel Hockey Championship reaching runner up position for GC that year
- **Publicity Team Head**, Rendezvous 2018: Worked on marketing and publisizing college's culture fest RDV