Himanshu Kriplani

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EDUCATION

University of Southern California: **August 2019-May 2021 (Expected)**
Master's in computer science with specialization in Data Science
Relevant Course: Machine learning and Database Systems.

Ganpat University: **August 2015- April 2019**
Bachelor of technology, Computer science with specialization in Big Data and Analytics.   **GPA:9.36/10**
Courses: Big data and analytics, Machine learning, Data warehousing and mining, Business Intelligence, Software Engineering

TECHNICAL SKILLS

- **Programming languages:** Python, Scala, R, C++, Java
- **Databases:** MongoDB, Cassandra, Hbase, and SQL.
- **Big Data Tech:** MapReduce, YARN, Spark, Pyspark
- **Miscellaneous:** Numpy, Scikit-learn, AWS(S3 and EC2), Keras, GCP, Git, Android

EXPERIENCE

Data Scientist Intern, Embibe (Bengaluru, India)   **December 2018-May 2019**
- Collaborated with smart tagging team and implemented image classification based on CNN and Resnet architectures.
- Implemented text classification using ULMFiT improving the accuracy by 15%.
- Automated scripts for data extraction (SQL) and cleaning saving time by almost 50%.
- Wrote NLP utility library adopted by whole data science team.

Research Intern, Unway Research Lab (Ahmedabad, India)   **December 2017-March 2018**
- Led research on various Blockchain technology to integrate Public and Private blockchains.
- Built private blockchain for a project using Multichain.

Software engineer Intern, Zirki.ai (Ajmer, India)   **March 2017- August 2017**
- Developed zirki.ai website and used Facebook's messenger API to create chatbot in Php and mysql.
- Analyzed data generated from client usage stats in IBM Cognos to helped making decisions about marketing.

Machine Learning Intern, Strawberry Labs (Ahmedabad, India)   **June 2017-July 2017**
- Worked on string matching model using tf-idf for chatbot reducing support wait time of customers by 20%.
- Designed an android app for its interface.

PROJECTS

- **Recommendation engine on Implicit Dataset:**
  - Performed exploratory data analysis on data with pandas and matplotlib.
  - Used Alternating least square and LightFM on dataset to create Recommendations
- **Product Classification:**
  - Programmed Logistic Regression, SVM and ANN model on Kaggle's Data set (top 10%) using Pyspark.
- **OneGate (A social network for developers):**
  - Merged all the KPI's of Stackoverflow and github into a single profile-based web-app build using React and was awarded best in regional Facebook's HackDay.
- **LifeBlood (A blood donor's app):**
  - Implemented a PHP webapp with Mysql DB to connect Donors and Seekers.
  - Improved search algorithm and could get back most relevant donor when searched.
- **Sampler in R:**
  - A shiny web-app to sample (to select a small amount of data from huge dataset) data based on different sampling techniques such as SMOTE, ROSE, Stratified Sampling, and others.

PUBLICATIONS (Research Papers and Blogs)

- **Author** Prediction of chronic kidney disease using deep neural networks. International Conference on Clinical and Medical Image Analysis (2018) (Link)
- **Author** Prediction of arteriovenous nicking using aggregate residual network. International Conference on Computational Intelligence in Data mining (2018) (Link)
- **Blog** Recommendation engine using Alternating Least Square method (Link)
- **Blog** Understanding language modelling and ULMFiT (Link)

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

- **Coordinated Science and Tech Club** by facilitating student activities at Ganpat University (2016-2019).
- **Volunteered for teaching and mentoring** government school students.

CERTIFICATIONS

- Deeplearning.ai specialization from Coursera
- Data Scientist 2017v2 by IBM (2018)