Mridul Singh Gangwar

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EDUCATION

Master of Information Systems, **Carnegie Mellon University (CMU),** Pittsburgh PA **Aug 2018 - Aug 2019**
Master of Finance and Control, **University of Delhi,** Delhi, India **Jul 2012 - Jun 2014**
Bachelor of Technology, The LNM Institute of Information Technology (LNMIIT), Jaipur, India **Jun 2008 - May 2012**

TECHNICAL SKILLS & CERTIFICATION

Programming: Python, Java, R
ML/DL Frameworks: Scikit-Learn,Tensorflow, Keras
Database: SQL, Postgres, Redis
Technologies: Google Cloud (GCP), Apache Kafka, PySpark, CircleCI, Jenkins, Docker, Kubernetes, Rest API's, FASTAPI, Flask
Certification: Udacity Machine Learning Engineer nanodegree, Coursera Tensorflow in Practice Specialization

WORK EXPERIENCE

Software Developer, Backend, SAP Labs, Orange County, California, US **Oct 2019 – Present**

I am responsible for the iterative development of SAP S/4 Hana products like Intelligent Trade Claims Management (ITCM) where a claims analyst can match the invoice to the appropriate promotion using machine learning.

- Designing, developing, and maintaining code for backend microservices written in Python and Java
- Created a microservice that provides APIs to deploy machine learning models in shadow mode, retire old models, the status of current deployment models, etc.
- Developed REST APIs for the Spring based microservices and Flask Python based microservices. Integrated multiple services using Kafka
- Worked on backend master data application to store data from S/4 Hana to ITCM and efficiently retrieve the data
- Introduced concept of Cucumber testing in CI pipeline to ensure behavior driven development
- Participate in code reviews to ensure code quality and distribute knowledge
- Work closely with data scientists, developers, scrum masters, and product managers to explore and prototype new product features

Data Scientist, **Epsilon,** *Bangalore, India* **Nov 2016 – June 2018**

- Led teams engaged in B2B, B2C marketing, and strategic analytics to deliver insights through error-free reports, dashboards, statistical analysis
- Designed and deployed a predictive model using random forest for the credit union to identify the risky applicants for their short-term loan products
- Identified e-commerce focus customer segments, based on their browsing history, and created a targeted marketing strategy to increase the number of transactions by 1.3%
- Presentation of reports to key internal and external stakeholders, effectively communicating the essential findings and recommendations

Marketing Analyst, **Hewlett Packard Enterprise (HPE),** *Bangalore, India* **Aug 2014 – Oct 2016**

- Created an incremental $5Mn revenue ($15Mn sales pipeline) through identified prospects for HPE by build predictive models for the Asia pacific region
- Build a model to extract themes from unstructured social data by using text analytics (NLP) and creating classifications model in R during the HP split with HPE services
- Apply Data analysis to inform and provide insights and suggestions to improve performance KPIs of various marketing campaigns organized by HPE

ACADEMIC PROJECTS, Full-Time Student - Carnegie Mellon University **Aug 2018 – May 2019**

Big Data Analytics using PySpark – *Click Through Rate prediction*

- Developed a big-data machine learning pipeline to predict user click probability for ads viewed on the internet
- Tuned parameters of logistic regression in PySpark and compared performance with different baselines

Recommender System – *Articles recommendation for CI&T Deskdrop*

- Explored collaborative (SVD), content (TF-IDF & Cosine Similarity) and hybrid approach to recommend articles
- The hybrid method achieved Recall Top 10 metrics of 53% better than content and collaborative filtering