KIRAN

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WORK EXPERIENCE

SSR Mining Inc.
Data Science Co-op

📅 May 2019 – Feb 2020 📍 Vancouver, Canada

Gold Prediction for Marigold Mine Site Using Machine Learning
- Collected and processed mining exploration data - Spark, S3, EC2
- Performed oversampling using SMOTE(Synthetic Minority Oversampling Technique).
- Developed decision tree and deep learning classifiers to predict the gold distribution at SSR's Gold mine site. - XGboost, LightGBM, CatBoost, Random Forest, SVM, H2O, MultiLayerPerceptron.

Simon Fraser University
Teaching Assistant, CMPT 225 - Data Structures and Programming

📅 Sep 2019 – Dec 2019 📍 Burnaby,Canada

- Provided assistance with assignments to 111 undergraduate students.

INFOSYS LTD.
Senior Systems Engineer, Technology Information Risk (TIR)

📅 Sep 2016 – Jul 2018 📍 Chandigarh,India

- Worked on various UI modules written in AngularJS and designed intuitive and useful interfaces based on client demands.
- Gathered requirements from the client on a daily basis and developed high-level diagrams and designs to incorporate new features in existing application.
- Followed agile methodology for development and testing process.
- Skills - MySQL, Typescript, Java, HTML5, JQuery, CSS, Spring MVC.

Systems Engineer, iCloudPM and iTrac Application

📅 Feb 2015 – Aug 2016 📍 Chandigarh,India

- Worked as the sole programmer on this project, handled requirement gathering, designing, coding and releasing timely deliverables on the production environment. Skills - PHP, jQuery, AJAX, JavaScript, HTML, CSS, MySQL, SVN, JSON.

PROJECTS

Understanding Global Poverty Using Visualization, Simon Fraser University
- **Skills Used:** D3.js, React
- Developed a visualization dashboard by utilizing visualization principles to understand the global poverty and various factors related to it.

Predicting Stable Portfolios using Machine Learning and Deep Learning, Simon Fraser University
- **Skills Used:** Keras, NLTK, Scikit-learn, Pandas, NumPy
- Analyzed effect of sentiments of SEC filings on stock prices of S&P500 companies and predicted a stable portfolio based on sentiment scores and OHLC data using neural networks.

NYC Taxi Analysis, Simon Fraser University
- Performed ETL using PySpark and analyzed the dataset to provide the insights on how the taxi vendors in NYC can improve their business. Visualized the results using Kibana framework.

Ratatouille At Your Service, Simon Fraser University
- **Skills Used:** PyTorch, NumPy
- Re-implemented state-of-the-art neural joint embedding model that was developed in the research paper published in 2018.

BLOG POSTS

- Apr 14, 2019 Predicting Stable Portfolios Using Machine Learning
- Mar 08, 2019 Deep Learning using BigDL

EDUCATION

MSC in Computer Science (Big Data)
Simon Fraser University (GPA 3.85)

📅 Sep 2018–Apr 2020 📍 Burnaby, BC, Canada

- **Key Subjects**: Machine Learning, Statistical Learning and Prediction, Programming in Big Data, Visualization

Bachelor of Technology
Uttarakhand Technical University (80%)

📅 Aug 2011–Jun 2014 📍 UK, India

- **Key Subjects**: Data Mining, Data Structures, Database Management Systems, Design and Analysis of Algorithms

Diploma in Computer Science
Government Polytechnic Srinagar (77%)

📅 Aug 2008–Jul 2011 📍 UK, India

TECHNICAL SKILLS

- **ML Libraries:** Pytorch, Keras, TensorFlow, Scikit Learn, Pandas, NumPy, H2O, XGboost, CatBoost, LightGBM, SVM
- **Languages:** Python, R, Java, PHP, Angular, Bash Scripting, JavaScript, SQL
- **Frameworks:** Apache Spark, Anaconda/Spyder, Maven, Spring
- **Development and Deployment Tools:** Openshift, Docker, Kubernetes, Git, JIRA, Jupyter, VS Code, RStudio
- **Databases:** NoSQL Cassandra, MySQL, Oracle 10g
- **Hadoop Ecosystems:** HDFS, Kafka, Map Reduce, Hadoop Streaming
- **Cloud Computing Services:** AWS, GCP
- **Visualization Tools and Libraries:** Tableau, Kibana, D3.js, Matplotlib, Plotly, Seaborn

ACHIEVEMENTS & AWARDS

- Co-op work was recognized and published in quarterly newsletter of SSR Mining Inc.
- Received certificate of participation for attending the ACM Main and ACM-W Events 2013.
- Awarded with Infosys star award in recognition of outstanding achievement for consistent performance and sheer commitment towards work.