Rohit Rawat in ○ k

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EDUCATION

Master of Data Science, University of British Columbia, Vancouver, BC   2022
  Coursework – Advanced Machine Learning(NLP), Unsupervised & Supervised Learning, Statistical Inference & Experimentation

M.Sc. Mathematics, Indian Institute of Technology, Bombay, India   2018
  Coursework – Optimization, Graph Theory, Advanced Probability, Multivariate Calculus, Derivative Pricing

B.Sc. Mathematics, Hindu College, Delhi University, India   2016
  Coursework – Linear Algebra, Calculus, Probability & Statistics, Operational Research

WORK EXPERIENCE

Data Scientist, Grainger Canada, Vancouver   2022 – present
- Building ML APIs to improve the NLP, Search and Recommender capabilities of the e-commerce portal of the organization
- Deploy and maintain ML endpoints that solve critical business problems and build MLOPs solutions for the company

Data Analytics Manager, SBI Funds Management Pvt. Ltd., Mumbai, India   2018 – 21
- Implemented Investor Clustering & Segmentation of over 10 million customers using K-Means and DBSCAN methods for clustering, increasing digital assets usage by 25%, and improving the UI/UX experience of the investor
- Built and deployed Power BI visualization reports, integrating data from SQL Server and Google Analytics in a ETL framework, which product managers and marketing team used for monitoring digital assets performance and sales
- Developed Scheme Recommendation Model for upselling and cross-selling schemes, leading to 11% increase in Digital sales
- Piloted Customer Analytics usage to drive business decisions by collaborating and communicating with product owners

TECHNICAL PROJECTS

Confirmation of Head Impact Detection in Sports Videos, UBC Vancouver   Jun 22
- Working as part of a team of four to produce a reproducible machine learning pipeline using computer vision algorithms to detect the occurrence of head impact event using a combination of Object-detection and Activity-recognition models
- Reduced 60% of the time spent in manually analyzing sports videos using YOLOv5 & Resnet 3D with a recall score of 0.91

Predicting Daily Rainfall in AWS, UBC Vancouver ○   Apr 22
- Deployed Time Series model using Flask with Spark in AWS EC2 instance to predict daily rainfall in Sydney, Australia

Netflix Dash Dashboard, UBC Vancouver ○   Mar 22
- Published Dash app on Heroku using Python and R scripts, depicting content trends over the years on Netflix

Covid-19 visualization package, UBC Vancouver ○   Feb 22
- Created python and R packages using CI/CD workflow and unit/integration testing to visualize COVID-19 trends

Credit Card Default Prediction, UBC Vancouver ○   Dec 22
- Coded reproducible scripts using Docker and Tree-based models to predict the default propensity of a credit card user

Data Analytics with Managerial Applications, Indian Institute of Management, Lucknow, India ○   Jul 17
- Implemented concepts of Statistics and R programming to complete a Capstone Project 'A study of Hotel Room Pricing in Indian cities', which involved exploratory data analysis, feature selection and modelling prices of hotel prices

ACHIEVEMENTS

- Top 2% (16/829) in Kaggle Team competition, WiDS Hackathon 2022 | Forecast Energy Consumption | XGBoost   Mar 22
- Top 3% (87/3537, Solo Silver) in Kaggle competition, PetFinder.my | Deep Learning | CNN | Predict Image Popularity Jan 22
- Top 13% (267/2054) in Kaggle competition, Feedback Prize – Evaluate Student Writing | NLP | Transformers   Mar 22
- Received DST-INSPIRE scholarship (Top 1% in India) from Department of Science & Technology, Govt. of India   2013 –18

TECHNICAL SKILLS

Programming Languages & Databases – Python, R, SQL, NoSQL, PostgreSQL, MongoDB, C++
Machine Learning Toolkit – PyTorch, TensorFlow, Scikit-learn, NLTK, spaCy, OpenCV, HuggingFace
Big Data Toolkit: AWS (EC2, EMR, S3), Spark, Flask, Parquet, Git, Docker, SOLR
Statistical and Visualization Tools – Power BI, Tableau, Dash, Heroku, MATLAB

ADDITIONAL LEARNING COURSES

- **Certified Courses taken:** Deep Learning Specialization (Coursera), Building Transformer-Based NLP Applications (NVIDIA), Introduction to Machine Learning in Production(Coursera), Programming, data structures & algorithms using Python (NPTEL)
- Graduate Certificate of Advanced Public Policy with Merit, The Takshashila Institution, Bengaluru, India   Aug 21
- Completed 100 hours of French language course run by Ambassade de france en inde equivalent to A1   Apr 17