# Rohit Rawat In Ok

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# **WORK EXPERIENCE**

## Data Scientist, Grainger Canada, Vancouver

2022 – present

- Led the development and integration of end-to-end ML services within the existing SOLR-based infrastructure for Grainger Canada's website search, deploying production-ready models to address business-critical functions
- Deployed an ML API to evaluate parsed search queries using LLM parsed queries, leveraging LLM Validator with LangBear for prompt management, significantly reducing assessment time for incorrect query labels
- Refactored the product category prediction fastText model from an on-prem server to the cloud using MLflow and Databricks, reducing model training time by 37% and improving recall by 8%
- Launched Taskify, a Streamlit app leveraging Azure-OpenAI API and product information to create tasks and curate necessary products, driving product discovery
- Developed an API testing framework using GitHub Copilot to generate unit tests and provide in-line assistance
- Executed health check scripts and stress testing for REST APIs using Locust, implemented efficient logging with Splunk, and utilized Grafana dashboards to monitor model drift and performance

### Data Analytics Manager, SBI Funds Management Pvt. Ltd., Mumbai

2018 - 21

- Developed and fine-tuned FinBERT for classifying sentiment of 20,000 user reviews, integrating the result in the internal CRM tool, thereby improving the support team's response time to negative feedback
- Implemented clustering and segmentation for over 10 million investors and 37,000 brokers using K-Means and **DBSCAN**, for sending targeted notifications on app, increasing app usage by 25%
- Implemented item-item collaborative filtering model to recommend products to customers in the broker platform for upselling and cross-selling schemes, leading to an 11% increase in digital sales
- Built Power BI visualization reports with data from SQL Server & Google Analytics within an ETL framework

### **EDUCATION**

Master of Data Science, University of British Columbia, Vancouver, Canada	2021 – 22
M.Sc. Mathematics, Indian Institute of Technology, Bombay, India	2016 – 18
B.Sc. Mathematics, Hindu College, University of Delhi, India	2013 – 16

# **ACADEMIC PROJECTS**

#### Head Impact Detection in Sports Videos, UBC Vancouver

Jun 22

- Generated a reproducible machine learning pipeline in Google Colab using computer vision algorithms to detect the occurrence of head impact event using a combination of Object-detection and Activity-recognition models
- Using YOLOv5 & Resnet 3D, the manual analysis time for videos decreased by 60%, achieving a recall score of 0.91

### **TECHNICAL SKILLS**

Programming Languages & Databases - Python, R, SQL, PostgreSQL, MongoDB, C++, Spark, Parquet ML Frameworks & Tools – PyTorch, TensorFlow, HuggingFace, Langchain, Scikit-learn, OpenCV MLOps Toolkit: Databricks, AWS, Bash, Docker, Kubernetes, Git, Airflow, CircleCI, Helm, Flask, JIRA

### **ACHIEVEMENTS**

• Top 2% (16/829) in Kaggle Team competition, WiDS Hackathon 2022   Foreca	Energy Consumption Mar 23
• Top 3% (87/3537, Solo Silver) in Kaggle competition, PetFinder.my   CNN   Pr	ict Image Popularity Jan 23
• Received DST-INSPIRE scholarship (Top 1% in India ISC Exams) from Govt. of In	2018

## ADDITIONAL LEARNING COURSES

- Certifications: Databricks Generative Al Fundamentals, Databricks Certified Machine Learning Associate, Databricks Lakehouse Fundamentals, SQL Intermediate (HackerRank), Deep Learning Specialization (Coursera), Building Transformer-Based NLP Applications (NVIDIA)
- 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