**VIKASH CHANDRA**

**Lead Data Scientist**

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**CAREER SUMMARY:**

* Innovative digital transformation professional with more than 12 Years of experience in machine learning, gathering business requirements, Application design, developing and deploying data analytics pipeline
* Experienced in leading and coaching the team in the wide variety of statistical/predictive methods with focus on Rapid Prototyping/demo of use cases and working independently as hands-on contributor
* Continuously identify performance improvement opportunities, conduct Proof of Concepts, and document best practices for project & machine learning operations
* Use advanced analytics (machine learning, NLP, deep learning and statistical model methods) to develop actionable machine learning solutions and propose recommendations and strategies to solve and extract insights from large data sources and effectively communicate complex technical findings, recommendations to business stakeholders/ cross-functional teams

**ADDITIONAL INFORMATION**

Innovative digital transformation professional with more than 13 Years of experience in machine learning, gathering business requirements, Application design, developing and deploying data analytics pipeline

**Certifications:**

* Deploying Machine Learning Models in Production, deeplearning.ai
* Getting started with Azure, AZ-900 by Microsoft on CourseraZ
* SAS skilled professionals – 2012 Certified by SAS Institute, India
* R certification, Data Camp & Coursera
* Python Data Structures, University of Michigan on Coursera
* Machine Learning Foundations: A Case Study Approach, University of Washington on Coursera
* Deep Learning, deeplearning.ai
* Natural Language Processing, deeplearning.ai

**PROFESSIONAL EXPERIENCE :**

**Client: BDO LLP**

**Role: SENIOR MANAGER**

**LOCATION: Chicago, ILUS**

**DURATION: JAN 2023 – Nov 2023**

* Developed a Mortgage Servicing Right Application in python to automate the fair value calculation at loan
* Lead the design and development of Current Expected Credit Loss model validation pipelines
* Lead the design and development of Fair Lending Application using ML, Azure Devops & Python

**Roles & Responsibility:** Managed project delivery, coordinated with clients, and conducted presentations to stakeholders

**Client: WORLDLINK**

**Role: Principal Data Scientist**

**LOCATION: US ,Chicago, IL**

**DURATION: JAN 2022 – Jan 2023**

* Building scalable data pipeline for mapping Issue tickets to respective product taxonomy system using Python, Apache Spark, Jenkins and Apache Airflow for a leading US Bank for MRM team
* Lead the design and development of MLOps pipeline using Azure Pipelines/ Boards, Repos and Azure Artifacts for one of the leading financial institutions in the world
* Lead the design and development of Data Ecosystem for one of the leading cards & payments industry leaders in the UK on Azure Cloud
* Developed a Machine Learning pipeline for a consumer loan lending organization in the UK, predicts which customer is going to default in the next 90 days. This whole pipeline was built on Google Cloud and orchestrated via Apache Airflow
* Built a demo called "5W match" using PyTorch (NLP Embedding - Google) and Flask (for calling the API for inference)

**Roles & Responsibility:** Contributed as an individual technical expert, managed project timelines & team, and ensured effective client communication and presentations.

**Client : FRACTAL ANALYTICS LTD.  
Role : Senior Data Scientist**

**LOCATION: US ,Chicago, IL**

**DURATION : OCT 2020 - Jan 2022**

* Lead an innovative complex solution to rank a rescue service provider for an insurance roadside assistance team. Build acceptance/ out of network/ Time of Arrival ml model to lower the metric average time of arrival of TOW service vehicle.
* Led full redesign of rescue allocation with findings from provider segmentation and predictive models, increasing acceptance leads by 70%.
* Encourage continuous improvement of team/delivery following the right agile procedures to ensure analysis methodology consistency.
* Deployment, testing, delivery, maintenance, validation and monitoring of existing model training processes & end-to-end activities including logging, alerts in a cloud environment.
* Tools & Deliverables: AI, data processing pipeline for Impact analysis, business performance plan, statistics, Spark, streamlit, anomaly detection, Domino data Lab, Azure Cloud Infrastructure

**Selected Project Experience**

**Out Of Network Rescue Detection Project**

* Drove redevelopment of out of network rescue detection algorithm, introducing 20+ new attributes, resulting in decreased false positive cases by 75%.
* Analyzed provider’s acceptance behavior, including mapping the location of the rescues & providers to identify rescues likelihood of going out of network, increasing the accuracy rate by over 97%.
* Led the team of 3 members to redesign the whole process in an efficient manner, completing the project 4 weeks earlier than estimated timeline.

**Time of Arrival Project**

* Streamlined business processes and internal systems resulting in acceptance efficiency rising by 40%.
* Led consolidation of 5 data systems into 1, resulting in 2 million in annual savings.
* **Roles & Responsibility:** Played a pivotal role in ensuring consistent analysis methodology and team improvement.
* Conducted client presentations and communicated complex technical solutions effectively.

**Client: BIRLASOFT**

**Role: Senior Technical Lead**

**LOCATION: New Delhi Area, India**

**DURATION: MAY 2017-Aug 2020**

* Design and maintain AI driven products for the case processing team, to enable them with smart decisions for better and optimal planning, identifying follow up & initial serious disease cases which leads to lower cost of the operations to the organization.
* Designed a data application tool using an LSTM/ neural network to predict the patient spontaneous cases for duplicate detection and identify patient serious Individual case safety reports. The earlier average uptime for case detection was in weeks, using this predictive system the average process is done in a few mins.
* Implemented a Pharmacovigilance AI-enabled product to classify the clinical pharmaceutical publications reading for Adverse Drug Events Reporting to increase the efficiency of medical safety officers' judgment

**Roles & Responsibility:** Contributed as an individual technical expert, managed project timelines & team, and ensured effective client communication and presentations.

**Client:FRACTAL ANALYTICS LTD.**

**Role: Senior Consultant**

**LOCATION: INDIA**

**DURATION: FEB 2013 - Apr 2017**

* Built Credit Risk Prediction models for the prediction of consumer loan default likelihood on credit line in retail banking dataset such as PD and LGD. Role: Project
* Lead, Data Scientist and work includes requirement gathering, advanced model designing, development, mentoring team member in technical solution design
* Implemented a segmentation-based customer profiling solutions to manage revenue leakage caused by Dynamic Currency Conversion trends and patterns using best practices for a UK bank
* Leverage customer data to predict if a credit card is Top of Wallet card for one of the largest UK banks
* Analyzed an Auto insurance claims fraud risk prediction problems using Adjustor notes on insurance datasets
* Litigation propensity score model for customer churn/ retention using ML, hyperparameter tuning, validation

**Roles & Responsibility:** Contributed as an individual contributor, and ensured effective client communication and presentations.

**Client:MINDTREE LTD**

**Role: Senior Software Engineer**

**LOCATION: INDIA**

**DURATION: NOV 2011-Feb 2013**

* Developed and maintained ETL scripts in Python to scrape data from external websites into a SQL database.
* Contributed hands-on in customer analytics division which involved building the commercial data driven analytics solutions using SAS, R, Excel, SQL coding, Business Intelligence, Predictive models

**Roles & Responsibility:** Contributed as an individual contributor

**Client:TATA CONSULTANCY SERVICES**

**Role: Business Analyst  
LOCATION: INDIA**

**DURATION: AUG 2010-Nov 2011**

* Designed, find solutions, Investigate and developed hands-on several data cleaning, data mining, consulting and advanced statistical predictive analytics use case frameworks on retail/restaurant complex data sets
* Engaged in solution finding and data analytics consulting

**Roles & Responsibility:** Contributed as an individual contributor

**EDUCATION:**

**JAWAHARLAL NEHRU UNIVERSITY Delhi, India**

Master of Economics with Econometrics **Jun-2010**

Awards: MCM Scholarship (only 3 awarded to class), Top Research University of Indi

**SRCC, DELHI UNIVERSITY Delhi, India**

Bachelor of Commerce, Major in Accounting; Minor in Mathematics **Jun-2007**

**Top Ranked College of India/ Delhi University**

Designed, find solutions, Investigate and developed hands-on several data cleaning, data mining, consulting and advanced statistical predictive analytics use case frameworks on retail/restaurant complex data sets