GURKIRAT SINGH NAHAR

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Enthusiastic master's student specializing in Data Science, showcasing proficiency in data visualization, Python, R, SQL, and statistics. Actively seeking an intern or job opportunity in the field of data science, dedicated to delivering transformative results, creating a positive impact, and acquiring valuable experience in the tech industry.

ACADEMIC QUALIFICATIONS	ACADEMIC	QUALIFICATIONS
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Examination	Dept./Board	Institute	Grade point	Year
MS(ongoing)	Data Science	Monash University	3.75/4 GPA	2022-2024
BTech + MTech, Integrated	Geophysical Technology	IIT Roorkee	8.622/10 GPA	2013-2018

EXPERIENCE/ INTERNSHIPS

Powerdope Ventures Private Limited

CO-FOUNDER 2021-2022 It's a health & fitness start-up creating a marketplace for gyms, fitness trainers and nutritionists. Building the company involved working in different verticals to steer the Product development, Design and Business strategy.

Holly City Impex Private Ltd.

Administrative Officer 2019-21

Major job duties were to strategize and supervise the general administration of the organisation, establish work priorities, stakeholder management and analysing the different parameters to improve the sales and maintaining data to deliver periodic and annual reports.

Schlumberger

PETROPHYSICAL INTERN 2017 Worked on comparative analysis of the Seismic Velocity approach and Geological-Basin Modelling approach on Pore Pressure build-up in Hapjan Basin, Assam (India) using large data sets of subsurface rock's Physical attributes. Finally mapped the hydrocarbon reservoir in the basin.

University of Tokyo, Japan

RESEARCH INTERNSHIP
2016

Worked on research project aiming at geophysical characterization of seismogenic zone of Nankai Trough, Japan using MATLAB and Petrel software. Research aimed at finding the source of high seismic activity in the Nankai Trough for better Tsunami modelling.

SKILLS

Computational skills

Python, R, SQL, MATLAB, Tableau, Apache Spark, Kafka, Git

DS Domains

Machine Learning, Deep learning, Big Data, NLP

Language skills

English(CEFR-C1 level), Punjabi, Hindi

RESEARCH PUBLICATION

Kunal Sharma, Gurkirat Singh and Ravi Sharma, "Optimized Petrophysical Evaluation using Non Linear Volumetric Solvers in Organic Rich Source Rocks", SEG 91st Annual International Meeting (2021)

PROJECTS

1. Data Visualisation Project: "Earthquake and Tsunami Visualisation dashboard"

R Shiny | Tableau | Plotly | ggPlot

- a) Developed an interactive R Shiny data visualization project focusing on earthquake and tsunami patterns.
- b) Utilized spatial and temporal analysis to identify high-risk areas for enhanced disaster preparedness.
- c) examined key factors, including location, magnitude, quake frequency, depth, and time, to gain comprehensive insights into earthquake occurrences.
- 2. Data Wrangling Project: "Housing and Railway Commute Insight: Analyzing Trends in Victoria, Australia"

Pandas | Numpy | Matplotlib | Selenium | Beautiful Soup

- a) Orchestrated integration of diverse housing datasets available in PDF, CSV, JSON and GTFS geo-location format, creating a unified dataset with key attributes.
- b) Used Web-Scraping for supplementary data from house.speakingsame.com for a comprehensive housing trends analysis.
- c) Investigated the impact of normalization/transformation methods on scraped data for optimal linear regression modelling of median house prices
- 3. Deep Learning Project: "Enhancing CNN Models for Image Classification using Tensorflow"

Tensorflow | Keras | Numpy | Transfer-learning | Object oriented Programming

- a) Developed a customizable deep learning model for image classification with configurable block architectures, exploring skip connections, mean pooling, and different learning rates.
- b) Conducted hyperparameter tuning to optimize model performance, including the evaluation of various configurations with skip connections, mean pooling, and different learning rates.
- c) Implemented data augmentation techniques, introduced early stopping, and experimented with data mix-up to enhance model generalization and robustness. Evaluated model performance against adversarial attacks (PGD, MIM, FGSM) and visually assessed their impact on a curated set of test images.
 - *Achieved a commendable 3rd position in a University Kaggle competition focused on knowledge distillation in deep learning
- 4. Machine Learning Project: "Discriminative and Generative Models on Breast Cancer Dataset"

Scikit learn | ML Classification | Numpy | Object oriented Programming

Classified breast cancer data using different classification algorithms like discriminative (Logistic Regression) and generative (Naive Bayes with variants) models.

POSITIONS OF RESPONSIBILITY				
COGNIZANCE				
MANAGER EVENTS 2015-16	Organized Departmental Cognizance, 2016 in Earth Science Department at IIT Roorkee. Successfully attracted good participation from various universities and colleges due to the tremendous efforts of the organizing team.			
COGNIZANCE				
COORDINATOR EVENTS 2014-15	Co-ordinated the Robotics event 'POSEIDON', We introduced this event for the very first time in cognizance and were successful to attract an appreciable participation .The event was a combination of robotic model and float stability mechanism. It was an amazing experience to lead a team of coordinators and volunteers.			
CERTIFICATIONS				
IBM 2021	Data Science Methodology, Python Project for Data Science, Al & Development, Databases and SQL			
Wharton Online 2021	Fundamentals of Quantitative modelling.			