

RAJ KUMAR, PHD SEEKING DATA ANALYSIST OR DATA SCIENTIST POSITION

PROFILE

As an accomplished academic and materials researcher with over 11 years of experience, I am a proactive and task-oriented professional with a passion for active learning in the fields of Data Science, Machine Learning, and Artificial Intelligence. I specialize in leveraging data insights to enhance customer and business experiences. I am now seeking a transition to a career in Data Science, eager to explore and analyze various data sets, and expand my knowledge of different data domains. I thrive in a collaborative team environment and take pride in effectively communicating data-driven results.

CONTACTS



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https://scholar.google.com/citations ?user=smv1DREAAAAJ&hl=en

EXPERIENCE

DATA SCIENCE TRAINEE, ALMABETTER, BENGALURU AUG 2022-PRESENT

- Possess an extensive understanding of technical skills, including Python, SQL, Machine Learning, and Deep Learning, and have gained hands-on experience using tools such as Tableau, and Power BI.
- Successfully executed numerous projects, including Bike Sharing Demand Prediction, Health Insurance Cross Sell Prediction, and Netflix Movie and TV show, showcasing exceptional analytical and problem-solving skills.

Netflix Movie and TV Show-Clustering (02/2022 - 03/2022)



- Developed a clustering model using K-means and hierarchical clustering to segment Netflix's movie and TV show data.
- Utilized NLP techniques, including text cleaning, stemming, stop word removal, and lemmatization to pre-process the data.
- Conducted vectorization of the final text column using TF-IDF and applied PCA for dimensionality reduction.
- Evaluated optimal clusters using the Elbow Method and Silhouette Method.

Health Insurance Cross Sell Prediction (01/2023 - 02/2023)

- Developed a Classification Model utilizing advanced algorithms including Logistic Regression, K-nearest neighbour, Random Forest, and XgBoost Classifier to forecast the likelihood of customer interest in Vehicle Insurance.
- Implemented feature encoding, applied SMOTE, and executed Hyperparameter tuning via GridSearchCV to refine model performance.
- Experimented with multiple Performance metrics for various models and identified XgBoost Classifier as the top-performing model, achieving an impressive Recall score of 92%.

Bike Sharing Demand Prediction (10/2022 - 11/2022)



- Developed a sophisticated Regression Model utilizing advanced algorithms like Linear Regression, Random Forest, and Gradient Boosting to forecast the hourly demand for bikes, ultimately reducing public waiting times.
- Implemented various processing techniques, including Feature Scaling, Outlier Treatment, Missing Value Imputation, and Multicollinearity analysis, to improve model accuracy and efficiency.
- Employed Hyperparameter Tuning techniques, such as RandomSearchCV, to refine the model and achieved an impressive R2 Score of 86.4% using the XG boost algorithm.

Exploratory data analysis of Hotel Booking (09/2022-10/2022)



- Conducted exploratory data analysis (EDA) on Hotel Booking dataset, uncovering insights and patterns in customer behaviour, hotel preferences, and booking cancellations.
- Utilized various techniques including univariate analysis, hotel-wise analysis, booking cancellation analysis, and customer-centred analysis to gain insights into the data.
- Presented findings and recommendations to marketing and business teams to inform decision-making and improve hotel booking strategies.

SKILLS

TECHNICAL SKILLS

Programming Languages: Python, SQL **Data Analysis:** Pandas, Numpy, Scipy,

Matplotlib, Seaborn

Machine Learning: SciKit-learn, Tensor Flow,

Keras

Analytics Tools: Power Bi, Tableau,

Advanced Excel

Database Management: MySQL, PostgreSQL **Other Tools:** Git and GitHub, Azure, AWS, Watson cloud and google cloud

SOFT SKILLS

- Strong performer with consistent results
- Enthusiastic and optimistic approach to work
- Excellent communication and presentation skills
- Proficient in project management techniques
- Strong research orientation and ability to apply research findings to realworld situations
- Skilled in team incubation, fostering collaboration and teamwork

CERTIFICATES

- Full Stack Data Science Program 🔽
- IBM Data Science Professional Certificate
- Preparing for Google Cloud
 Certification: Machine Learning
 - Engineer Professional Certificate
- 🛮 Intermediate SQL 🔽
- 🛮 Joining Data in SQL 🔽
- Introduction to Power BI
- Getting Started with Data Analytics on AWS

ACHIEVEMENTS

- GATE (Mechanical Engineering) qualified with an 86.86 Percentile (2012)
- Got MHRD scholarship in Ph.D. and ME

ASSISTANT PROFESSOR/MMDU, MULLANA, AMBALA, HARYANA (DEC 2020-JUNE 2022)

- Manage student record during admission and coordinate with DRCC.
- Teach, mentor, and conduct hands-on experiments for B.Tech and M.Tech students.
- Prepare academic reports and supervise examinations as a University Examiner.

RESEARCH ASSOCIATE, TBRL, DRDO (MINISTRY OF DEFENCE, GOVT. OF INDIA), CANDIGARH (JULY 2018-JULY 2020)

- Responsible for setup, maintenance, and calibration of Split Hopkinson Pressure Bar (SHPB) to determine material properties under extreme loading conditions in the strain rate regime 10^2 to 10^4 per second, as well as designing and developing samples and wave shapers to attain stress-strain equilibrium.
- Analysed data using MATLAB, Excel, and Origin to identify trends and patterns, and communicated results through graphs, charts, and figures to support research objectives.
- Responsible for project planning, management, and delivery of reports to various central and government bodies.
- Demonstrated strong attention to detail and accuracy in data analysis, and maintained meticulous records of experimental data and analysis for future reference.
- Collaborated with multidisciplinary teams of scientists, engineers, and professors to achieve project goals and objectives.

EDUCATION

DOCTORATE OF PHILOSOPHY (PH.D.), METALLURGICAL AND MATERIALS ENGINEERING

PUNJAB ENGINEERING COLLEGE, (DEEMED TO BE UNIVERSITY), CHANDIGARH, INDIA, (JAN 14 - JULY 2018), CGPA 8.0

MASTER OF ENGINEERING (M.E), INDUSTRIAL MATERIALS AND METALLURGY

PUNJAB ENGINEERING COLLEGE, (DEEMED TO BE UNIVERSITY), CHANDIGARH, INDIA, (AUG 2011- JULY 2013), CGPA 6.25

B.TECH, MECHANICAL ENGINEERING

HARYANA ENGINEERING COLLEGE,

KURUKSHETRA UNIVERSITY, (AUG 2004-JULY 2008), 62.5%