**KRISHNA SINGH RAJPUT**

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**summary**

Driven Data Scientist and Machine Learning Lead with a strong foundation in data science, machine learning, and cloud technologies. **Led workshops** for **100+ participants** and developed AI-driven solutions, including an event recommender system that **increased** campus **engagement by 30%.** Known for quickly adapting to new tools and delivering results in complex problem-solving environments. Eager to apply my expertise to deliver impactful, data-driven insights. Seeking **internship or full-time** opportunities.

**education**

**Master of Science, Data Science and Analytics** Expected May 2025

Arizona State University, Tempe AZ GPA: 3.67

Related Course Work: Data Mining, Natural Language Processing, Statistics, Machine Learning, Big Data, DBMS

**Bachelor of Technology, Mechanical engineering** May 2023

Pandit Deendayal Energy University, Gandhinagar Gujarat GPA: 3.85

**technical skills**

Programming Languages and Tools: **Python, Julia, SQL,** Databricks, **Azure,** PowerBI, MS Office, Jupyter Notebook

Machine Learning & Libraries: Generative AI, Supervised, Unsupervised, Deep Learning, Natural Language Processing, scikit-learn, NumPy, pandas, matplotlib, seaborn, TensorFlow, NLTK, PyTorch

Analytics: A/B testing, Data science pipeline (cleansing, wrangling, visualization, modeling, interpretation), Time series, Statistics, Optimization, Experimental design, hypothesis testing, OOP, VS Code, Git, Business Intelligence

**leadership experience**

**Head of Machine Learning Domain,** AI Society, ASU, Tempe May 2024 - Present

* Directed a team of data scientists & machine learning enthusiasts, managing all ML-related activities at ML Lab, including overseeing project development, providing mentorship to members, and fostering collaboration across various domains.
* Led the design and execution of an end-to-end capstone project, equipped participants with hands-on experience in building an end-to-end AI/ML solutions.
* Spearheaded weekly workshops, developing and delivering content to over 100 participants, covering ML topics.

**project experience**

**ASU Event Recommender System** February 2024 - June 2024

* Developed an event recommender system for ASU, utilized Python and Beautiful Soup for efficient data extraction, gathering information about upcoming events (more than 3000 events) from ASU's website.
* Deployed local web app leveraging Flask, where users input preferences to receive personalized recommendations.
* Designed entire data pipeline, the system leverages machine learning techniques to assess user preferences and suggest top future events, enhancing campus engagement and user experience by 30%.

**Exploring Educational Outcomes - Team Project** August 2023 - December 2023

* Analyzed the U.S. Department of Education's College Scorecard dataset (3,000+ rows, 50+ features) to identify key factors influencing student success and inform data-driven strategies for educational institutions.
* Employed advanced statistical techniques, including t-tests and ANOVA, to perform rigorous hypothesis testing, uncovering five actionable insights that provided strategic recommendations for improving student outcomes and success metrics.

**Wind Power Forecasting Using Machine Learning - Thesis** January 2023 - May 2023

* Conducted thorough time series analysis to predict wind power on an hourly basis for a 15-day period.
* Optimized maintenance scheduling, resulting in an estimated 15% cost savings and improved resource utilization through strategic planning based on accurate forecasts.
* Executed data wrangling, ensuring data cleanliness, and applied feature engineering techniques. Deployed a deep learning algorithm, LSTM (RNN) and fine-tuned algorithm parameters to maximize accuracy, achieving an R2 score of 82.

**Bearing Fault Prediction** August 2022 - November 2022

* Solved the predictive maintenance problem of bearing failure, various models are made for Classification of three bearing fault: Inner-race, Outer-race, Ball fault.
* Analyzed the data using EDA, a notable public dataset by CWRU is used, then ML algorithms (ANN, Naive bays, Logistic regression, Multiclass SVM & Random Forest) are applied and parameters are tuned.