Rohan Kumawat

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As a **Software Engineer**, I am seeking a challenging role where I can bring my passion for building software to the forefront using my **Computer Science fundamentals, Python programming, and Database** skills.

Education

University of Glasgow — Glasgow, Scotland
Master's in Robotics and A.I. — *Sep. 2022 – May 2024*

G.D. Goenka University — Gurgaon, India
Bachelor's of Technology in Computer Science Engineering — *Aug. 2018 – May 2022*

Experience

Workshop — Mar 2021
Spotify Recommendation Engine and API

- Led a detailed Spotify Recommendation System workshop, focusing on API integration and filtering techniques.
- Demystified API complexities in data analysis for diverse audiences, enhancing comprehension of recommendation systems.
- Facilitated effective knowledge transfer in data science, empowering attendees to implement recommendation engines in varied scenarios.

Internship — Feb 2020 – Oct 2020
Linux World Informatics

- Engineered solutions and integrated a variety of technologies such as Docker, RedHat, Python, MLOps, AWS Cloud, GCP Cloud, and Flutter during internship, applying them in real-world, industrial projects.
- Absorbed a vast array of technologies demonstrating a strong capability for quick learning in high-tech environments
- Synthesized diverse technologies in project development and honed my approach to solving industrial problems, while mastering time management

Projects

AEMA: Approximation and Evaluation of Matching Algorithms for SMTI | *Python* — Sep 2023 – Dec 2023

- Investigated the Stable Marriage Problem with Ties and Incomplete Lists (SMTI), analyzing its complexities in combinatorial optimization.
- Faced challenges in handling theoretical and computational aspects of SMTI, requiring advanced algorithmic solutions.
- Conducted empirical analysis of algorithms for SMTI, providing valuable insights for practical matching scenarios and algorithm selection.

Predicting Central Neuropathic Pain | *Python, Pandas* — Nov 2022 – Dec 2022

- Developed an advanced machine learning model to predict Central Neuropathic Pain in patients, utilizing Python and various feature engineering methods (Filter, Wrapper, Embedded) to handle high-dimensional EEG data.
- Overcame challenges associated with high-dimensional data and model overfitting by implementing and comparing different feature selection methods, achieving enhanced model accuracy and reliability.
- Efficaciously enhanced Logistic Regression and Linear SVM classifiers using feature engineering, showcasing the pivotal role of strategic feature selection in predictive model performance.

Spotify Songs Data Analysis | *Python, Streamlit, Plotly, Spotify API* — Jan 2022 – Apr 2022

- Orchestrated the development of a Python-based web application for visualizing Spotify song and artist data, utilizing the Spotify API for data acquisition and presentation.
- Excelled as a full-stack developer, skillfully integrating data analysis, web development, and API utilization to deliver a highly functional data analysis tool.
- Surmounted Spotify API challenges, including data extraction limits and automation hurdles, showcasing resilience and innovative problem-solving abilities.

Technical Skills

Skill-Set: Python, C++, SQL, NoSQL, Machine Learning, Natural Language Processing
Deployment Tools: Git, Github, Docker, Google Cloud Platform, AWS, Linux
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Plotly, SKLearn, Streamlit