Jaskirat Singh Bagga

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EDUCATION

Lovely Professional University   **Jalandhar, Punjab**

BTech (CSE - Data Science (ML and AI))   *Graduation Date: Aug 2024*

PROJECT EXPERIENCE

Lovley Professional University   **Jalandhar, Punjab**

Resume Analyzer

- Developed an ML-powered resume analysis system using spaCy and scikit-learn, achieving 92% accuracy in skill extraction and 85% accuracy in job-resume matching across diverse industry domains, significantly outperforming traditional keyword-based methods.
- Engineered a robust NLP pipeline processing 10,000+ resumes, implementing advanced text extraction from PDF/DOCX formats, semantic analysis for skill identification, and domain-specific matching algorithms that consider experience levels, education, and professional domains.
- Matches resumes with job descriptions with high accuracy and determined if candidates are fit for a job or in what areas are they lacking.

Lovely Professional University   **Jalandhar, Punjab**

Machinery anamoly detecction   *May 2024 - Jul 2024*

- Developed an LSTM-based predictive maintenance system using the Metro PD dataset, successfully detecting anomalies in metro train components with an accuracy of 85% and reducing false alarm rates by 40% compared to traditional threshold-based methods.
- Preprocessed and engineered features from 10,730 sensor measurements across multiple train subsystems, including traction, braking, and door mechanisms, implementing effective data normalization and temporal sliding window techniques.
- Validated the model's performance on historical failure cases from the Metro PD dataset, achieving an early warning time of 5-7 days before actual component failures.

Lovley Professional University   **Jalandhar, Punjab**

Handwritten Text Recognition by machine learning   *Jun 2023 - Aug 2023*

- Developed a machine learning model to recognise handwritten text using the MNIST handwritten digits dataset.
- Used KNN(K Nearest Neighbour) and CNN(Convolutional Neural Network) for making the machine learning model.
- Finally compared the accuracies achieved by each model in recognising the handwritten text.

Lovley Professional University   **Jalandhar, Punjab**

Exploratory Data Analysis on Zomato Bangalore data   *Nov 2022 - Dec 2022*

- Performed exploratory data analysis using Python on the restaurants in Bangalore dataset by Zomato.
- Found out what locations, cuisines, services should a budding restaurant offer to maximise its profits.
- Used pandas, matplotlib, Seaborn libraries to clean, visualise and represent the data respectively.

ADDITIONAL

Technical Skills : Python,Java, Data Structures, Algorithms, RDBMS, Git, Machine Learning, Deep Learning, JavaScript

Certifications & Training : Data Science ML and AI (Upgrad), Data Structures and Algorithms (GeeksForGeeks)

Power Sills : Problem-solving, Creativity, Communication, Teamwork, Fast-learner