JASKIRAT SINGH

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PROFILE

A passionate Machine Learning and Data Science engineer with extensive experience in developing solutions and optimizing ML models. Demonstrated expertise in data science, AI, and data analytics, with a focus on practical, impactful projects. Skilled in leveraging advanced technologies to drive meaningful insights and business growth.

EDUCATION

- **IP UNIVERSITY , DELHI** 2020-2024
  - **B-Tech in Computer Science. CGPA- 9.4**
- **ARMY PUBLIC SCHOOL, DHAULA KUAN** 2018-2020
  - **CBSE Class 12th Percentage - 90.6%**

EXPERIENCE

Machine Learning Intern — June 2023- August 2023

ONGC

Developed and implemented a **full-stack Natural Gas Price Prediction Model** with the help of **historical data** and **time-series analysis**. Libraries like **Pandas and MatplotLib** were used for data analysis and **data visualization.** For building the logic of the application, I used Machine Learning Libraries such as **SciKitLearn** & to implement boosting, and **XGBoost** was used.
After **optimizing** the prediction model with **newer dependencies and functions**, I **improved** the **accuracy** of the model by **5.4%** .

Data Science Intern — November 2021 - January 2022

Zebo.ai

Assisted project managers in **planning and executing various projects**, ensuring adherence to project **timelines and deliverables**. My responsibilities included working with Data Science and Data **Analytics frameworks** and technologies such as **SQL, PowerBI, Pandas** and building **web scrappers using Beautiful Soup**.

SKILLS

Technical Skills: Machine Learning, Data Science, NLP, Predictive Models, Web Scraping, Python, SQL, GIT, Gen AI, Power BI, HTML, CSS, JavaScript, Full-Stack Dev, ChatBot Development (RAG) , Exploratory Data Analysis

Soft Skills: Collaboration, Problem Solving, Communication, Leadership, Discipline and Determination, Adaptability

PROJECTS

TALK2PDF

Developed an **interactive chatbot** application using Streamlit, **LangChain**, and **OpenAI API** to enable seamless PDF content interaction. Implemented **retrieval-augmented generation (RAG)** techniques, **improving** user query **accuracy** by **30%**. Enhanced user experience with robust **NLP** capabilities and intuitive UI design, increasing user engagement by 40%. Managed **end-to-end project** lifecycle, leading to a **25% reduction** in document **processing time**.

TRYONline - Virtual Fitting Room

Developed an advanced virtual fitting room application using **Python, PyTorch, and Diffusion models** to simulate realistic garment overlays on user-uploaded photos. Leveraged **image processing techniques with OpenCV** and **deep learning algorithms** to enhance garment fitting **accuracy by 85%**. Implemented user-friendly features, enabling multiple garment types and user images, resulting in **high-quality try-on** previews. **Optimized** the model's performance, reducing **image processing time by 30%** through effective **model tuning** and efficient coding practices.

CERTIFICATIONS

- **Google's AI Essentials**
- **IBM Cloud Application Development Specialization**
- **Data Science & Machine Learning by Udemy**
- **IBM Web Development Certification**