

KUSHAL RANA

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Education

Govt. Boys Senior Secondary School

Maths, Physics, Chemistry, Biology (**Percentage- 78**)

April. 2018 – May 2019

Shahdara, Delhi

I.K. Gujral Punjab Technical University

Bachelor of Technology in Computer Science and Engineering (**CGPA- 7.8**)

Sep. 2020 – July 2024

Mohali, Punjab

Technical Skills

Languages: Python, C, C++, HTML/CSS, SQL

Developer Tools: VS Code, DVC, ML flow, Docker, MongoDB, Postgresql, Jenkins, CI/CD Pipeline

Technologies/Frameworks: RESTfuls API, FastAPI/Flask/Django, Micro-services, TensorFlow, PyTorch, LLM, NLP, Object Detection.

Projects

Chicken disease Classification | (Link to Demo)

- Precision-focused machine learning project for accurate classification of chicken diseases, particularly distinguishing between cocci infection and healthy states, contributing to poultry health by enabling early disease detection, fostering timely intervention, and minimizing economic losses for farmers.
- Meticulously designed and modular machine learning project utilizing Data Version Control (DVC) for effective data versioning, ensuring reproducibility across a comprehensive codebase encompassing data pipeline, base model, model training, and Dockerized deployment.
- **Technologies used: Python, DVC, Flask, CNN (VGG-16 model), Dockerization, Github action, Git.**

End to End Recommendation System | (Link to Demo)

- Developed a cutting-edge content-based recommendation system by harnessing Python and advanced machine learning methodologies. This system offered tailored suggestions for images and posts, enhancing user engagement and satisfaction.
- Implemented a scalable API integration solution with FastAPI, supported by Render Cloud for robust scalability, and managed data storage through MongoDB.
- **Technologies used: Python, Machine learning, Data analysis, API integration, Render Cloud, Docker. MongoDB Database.**

Relevant Coursework

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|------------------------|-----------------------|---------------------------|------------------------|
| • Data Structures | • Algorithms Analysis | • Artificial Intelligence | • Machine learning and |
| • Software Methodology | • Database Management | • Computer Network | Deep Learning |

Extracurricular

Bharat Tech Experience Hackathon

28-29 Oct 2023

Team name : InQbator

Organized by GDSC-SVIET

- * Secured 3rd place in a competitive field of 60+ teams with a proficient 4-member team.
- * Collaborated effectively to engineer innovative solutions for complex real-world tech challenges.
- * Demonstrated agility, ingenuity, design, and coding expertise in a high-pressure environment.
- * Leveraged networking opportunities to stay abreast of cutting-edge industry trends and best practices.

Certifications

IBM Data Analyst Specialization

Machine Learning Specialization(From Coursera)