

# HIMANSHU KUMAR SINGH

IIT Ropar - Expertise in Data Science, Data Engineering and Backend Development

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LeetCode Profile  
himanshu230998



## PROFESSIONAL SUMMARY

- Graduated from IIT Ropar with a strong foundation in problem-solving, analytical thinking, and a passion for tackling complex challenges.
- 3.8 years of diverse industry experience, demonstrating adaptability and expertise across roles in data engineering, data science, and backend development.
- Highly motivated and committed to continuous learning, having completed certifications from platforms such as Udemy, NPTEL, and Coursera to stay updated with emerging technologies.

## WORK EXPERIENCE

### Software Developer

#### Beehyv Software Solutions Private Limited

August 2022 - Ongoing

Gurugram

#### Kumbh Sahayak - Data Scientist

- Deepfake for CM video using Audio cloning (Elevenlabs, Coqui-tts, naturalspeech2), lipsync (Wav2Lip), LLM: prompt fine tuning using textgrad, DSPy, bge embedding finetuning, AWS Guardrails and custom model and rule mimicking AWS Guardrail

#### Beecoach - Backend and Data Scientist

- Beecoach takes adaptive assessment from user based on topic and concept set by admin using LLM. Tech used: FastApi, Postgres, docker compose, llama, Openai, React

#### Data Engineer - EasyKnock Client (Real Estate business)

- Built data pipeline and batch automation task for business (portfolio valuation and portfolio acquisition), sales(Salesforce, Rentvine, Zendesk, Gmail data), accounting (Netsuite data automation), marketing (Google, facebook, bing ads with ML to prioritize leads) and Data Analyst (microservice data sync and views for reporting purpose) team. Migration and Deployment of Machine learning and airflow related code base from GCP to AWS. CICD related to Airflow and DBT using Github Action
- Tech used: Python, Airflow, Github Actions, Docker, Kubernetes, AWS, GCP

#### Backend Developer - BluBracket (Acquired by HashiCorp)

- Built software bill of material python module for security analysis and contributed Multi-Task Scheduler code base.

#### AIML work - Beehyv

- Built ML code to identify best picture in the cluster of similar moon image and also did POC for pupil detection from eye images taken from the handheld device

### Data Scientist (Financial Intelligence Unit of India)

#### LTIMindtree

August 2021 - August 2022

Delhi

- Built the application Data Quality Report in python framework. It takes batch data from 17 different types of financial institution like Banks, exchange house etc in different format and checks the quality of data based on 32 rules like duplicate reports, unique id validation rules, external validation of attributes from 8 different institution via API, ML rules etc. Hands-on Data Modelling and View creation involving multiple tables for consumption of user interface, network visualization using Neo4j tool, implementation of Risk score, Data preprocessing and EDA using python library, SQL queries
- Hands-on experience in unsupervised ML algorithms like KMeans, Dbscan, and anomaly detection Auto-Encoders and related hyper-parameter tuning methods like Elbow plot

## SKILLS

Python	●●●●
Javascript	●●●●
AWS	●●●●
GCP	●●●●
Postgres	●●●●
MongoDB	●●●●
Docker	●●●●
Kubernetes	●●●●
Github Actions	●●●●
Bash Scripting	●●●●
Airflow	●●●●
DBT	●●●●
LLM	●●●●
ML	●●●●
Deep Learning	●●●●
Kafka	●●●●

## CERTIFICATE

- Advanced Distributed Systems: NPTEL
- Amazon Web Services: Udemy
- Google Cloud Platform: Udemy
- MLOPS: Deeplearning.ai
- Airflow: Udemy
- Apache Kafka for Beginners: Udemy
- DevOps Beginners to Advanced with Projects: Udemy

## PERSONAL PROJECTS

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### E-Commerce backend server in Golang

#### Learning purpose

📅 June 2023 - present

- E-Commerce backend server that let you login, purchase item and add item as admin user

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### Armour Design with Deep learning

#### B.tech Project

📅 Aug 2020 - May 2021

- It is a b.tech one-year coursework project. Our team applied LSTM and neural network model on simulation datasets of armor bullet impact. Through the literature survey, we found researchers have used only simple neural networks. Our findings focus on creating a lesser number of simulations but utilizing the time-series intermediate simulation data on LSTM, unlike simple neural networks. It is time-saving and computationally inexpensive.

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### Academic portal

#### DBMS Course Project

📅 Jan 2021 - May 2021

- Academic portal using Flask, Postgres, and MongoDB (coursework) to implement profile management system (MongoDB) and leave management system(Postgres)

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### Artificial Neural Network course lab project

📅 Aug 2020 - Dec 2020

- Image classification with CNN and grad-CAM for evaluation, Translating Hindi into English using an attention model, Implementation of RNN, LSTM, WGAN and VGAN, Predicting the trajectory of double pendulum chaotic system using Deep learning

## EDUCATION

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### B.tech (Hons)

#### IIT Ropar

📅 July 2017 - May 2021

Major in Mechanical Engineering (CGPA- 7.61/10) and Minor in Physics (CGPA- 8/10)

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### Intermediate : CBSE

📅 July 2014 - May 2016

Score: 89.6 %

## VOLUNTEER

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### Satyagraha

#### Tech Contributor

📅 July 2023 - Nov 2023

- Landing page and authentication page of Satyagraha
- React, CSS, HTML, GCP, Github Actions

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### Pehchaan Ek Safar

#### IIT Ropar

📅 Sept 2019 - May 2020

- Representative at Paathsala and Governing body member
- Resource management, Curriculum design and teaching to slum children