

# AYUSH GOEL

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## EDUCATION

### University of Petroleum and Energy Studies

B.Tech CSE(AI/ML)  
2020-2024|CGPA-8.07

### DELHI PUBLIC SCHOOL

Higher Secondary  
2019-2020|Percent-80.4%

### DELHI PUBLIC SCHOOL

Secondary  
2017-2018|Percent-72.2%

## LINKS

GeeksforGeeks://[ayushgoel](#)

LeetCode://[ayushgoel](#)

LinkedIn://[ayushgoel](#)

Github://[ayushgoel](#)

CodeStudio://[ayushgoel](#)

## COURSEWORK

### UNDERGRADUATE

Machine Learning  
Artificial Intelligence  
Computer Vision  
Data Structure & Algorithm  
Database Management System  
Operating System  
MySQL

## SKILLS

### PROGRAMMING

Over 13000+ lines:  
C++, HTML, CSS, JAVASCRIPT,  
REACT, EXPRESS, Python  
Familiar:

- R • MySQL • GitHub
- Kaggle • Excel

## Achievements/Awards

2023 **Data Mining NPTEL**  
(Score 83% & Won Silver Medal)

2022 **GDGU-SPEED HACKATHON**  
(Fastest Real-Time Object Detection using YOLOV7)

## CERTIFICATION

2024 React and Redux KG Coding  
2024 JavaScript KG Coding

## EXPERIENCE

### OPTITECH | Associate Software Developer

April 2024 - Present |

- Collaborated with cross-functional teams to design, develop, and deploy AI algorithms tailored for edge computing environments.
- Demonstrated a strong understanding of computer vision and machine learning, enabling AI-powered application for diverse use.

### IBM | Summer Internship

June 2023 - September 2023 |

- **Developed Recommendation System:** Built an AI-powered recommendation system for an e-commerce platform using K-Nearest Neighbors (KNN) algorithm to provide personalized product suggestions.
- **Frontend Implementation:** Implemented the recommendation engine frontend with Python and Flask, ensuring efficient data processing and seamless integration with the e-commerce platform.
- **User Data Analysis:** Analyzed user behavior and purchase history to improve the recommendation accuracy, leveraging KNN for collaborative filtering based on user-item interactions.

## MAJOR PROJECT

### StudyNotion – An Ed-Tech Platform

July 2024

- StudyNotion is a fully functional ed-tech platform that enables users to create, consume, and rate educational content.
- The platform is built using the MERN stack, which includes ReactJS, NodeJS, MongoDB, and ExpressJS.
- A seamless and interactive learning experience for students, making education more accessible and engaging
- A platform for instructors to showcase their expertise and connect with learners across the globe.

## MINOR PROJECT

### Machine Learning Projects

- Implementation of Linear regression, logistic regression, Naïve Bayes & SVM.
- Iris Flower classification using Machine Learning

### Stock Price Prediction- AIML

- **Analyzed Predictive Model:** Designed and Defined an LSTM model for accurate stock price prediction, leveraging historical stock data and machine learning techniques.
- **Data Preprocessing:** Performed extensive data preprocessing including normalization, feature engineering, and time series data preparation to ensure high-quality inputs for the LSTM model.
- **Model Training and Evaluation:** Trained the LSTM model using TensorFlow/Keras, achieving high accuracy and robustness, and conducted thorough evaluation using metrics such as RMSE and MAE.

### Detection of Fruit Ripeness – AIML

- Pioneered a CNN neural network model to detect fruit ripeness, enhancing sorting accuracy by 95% and reducing waste by 20%, significantly improving operational efficiency in the agricultural sector.
- **CNN Model Development:** Developed and trained a convolutional neural network (CNN) for accurate detection of fruit ripeness, utilizing image data to classify different ripeness
- **Data Collection and Augmentation:** Collected a diverse dataset of fruit images and applied data augmentation techniques to increase the model's robustness and generalization capability.
- **Model Optimization:** Optimized the CNN architecture and hyperparameters to enhance prediction accuracy, achieving high performance in distinguishing various ripeness levels