Gaurav Kumar

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Portfolio: gaurav07kumar.github.io
github.com/gaurav07kumar
Interviewbit.com

EDUCATION

B.Tech in Electrical Engineering, *IIT Mandi [Current CGPA: 7.21]*	Nov. 2020 - May 2024
Senior Secondary, *R.Lal college, Nalanda [77.2%]*	April 2019
Secondary, *D.A.V public school, Nalanda [CGPA: 9.2]*	April 2017
Minor in Computer Science Engineering	

RELEVANT COURSES COVERED

Data Structures & Algorithms, Data Science & Machine Learning, Information & Database system, Internet of Things, Computer Networking, Computer Organization, Information Security and Privacy

SKILLS

Technologies	C++, Python, JavaScript, MySQL, Machine Learning
Tools	Git, GitHub, Arduino
Platforms	Linux, VS Code, Spyder

PERSONAL PROJECTS

Faulty steel detector & Covid wave predictor **GitHub Link**
Data Science - 3 (Machine Learning) Course. *Python, Numpy, Pandas, Matplotlib, Scikit-learn*

- Implemented data preprocessing (including data cleaning, data integration, data transformation and data reduction).
- Applied KNN, GMM, PCA on normalized as well as standardized data.
- Used various regression techniques(linear regression, polynomial regression, logistic) based on the data given.

iRailway - Railway Tickets Management System **GitHub Link**
Final Project For Course Information and Database System *Web,JS, PHP, MySQL*

- Initiated the database design, used relational database MySQL.
- Wrote several database queries and set-up options for booking/cancelling/downloading/verifying tickets.
- Introduced personalized dashboard for all users, & ticket verification portal to verify tickets using QR code.

Home Automation **GitHub Link**
Internet of Things *Arduino, Mesh Network, ESP8266WiFi*

- Home Automation and communication of devices is done wirelessly by mesh network using open-source library painless mesh.
- Three WiFi-module ESP8266 communicate with each other without any router in between.
- Used Temp. and Luminous sensor for input data to control fans and bulbs.

AWARDS & ACHIEVEMENTS

Secured rank in the top 0.83% among 1.2 million candidates who participated in the JEE 2020.	2020

Specialist on Codeforces (Max. 1505).
3-star CodeChef Rating(Max. 1623).
Ranked 390 in Codeforces Round 888 (Rated For Div. 3).

POSITIONS & RESPONSIBILITIES

Class Representative of BTech EE'20 batch.
Core Team Member of Photography and Moviemaking Club.
Hospitality Team Member at Rann-neeti'22.