Rohan Kumar Gupta

rohankrgupta2000@gmail.com • +91 7063923790 • #R-328, Hall 11, NITDGP, Durgapur, India

Education

B.Tech in Computer Science Engineering, Third Year 2019 - Ongoing
National Institute of Technology Durgapur, Durgapur, India
CGPA of **9.08/10** (Sept 2021)

High School - Vivekananda Kendra Vidyalaya (CBSE) - 94.8% 2011 - 2018

Experience

Research Intern, NIT Durgapur May, 2021 - July, 2021
Analysed various existing machine-learning algorithms and their relative performance towards perception analysis of facial expressions. Developed a multi-view regression model in **Keras** to improve the feature generalisation ability on existing data sets, resulting in improvement of coefficient of determination score by **20%**.

Remote Trainee, Coding Blocks Institute Dec, 2020 - Feb, 2021
60 hrs of training in Web Development (JavaScript, HTML, CSS).

Technical Skills

General - Web Development, Machine learning
Languages - C/C++, JavaScript, Python
Tools/Frameworks - Node.js, MongoDB, LaTeX, Git, Keras

Relevant Courses

Data Structures and Algorithms, Design and Analysis of Algorithms, Object Oriented Programming, Theory of Computation, Computer Organisation, Database Management System, Operating Systems

Selected Projects

Github link : https://github.com/rohankrgupta

- **Chat App** : A Web application made using Node.js that uses Web sockets (socket.io) to enable bi-directional client-server communication.
  Technologies used - **JS, Node.js, WebSocket**
- **Task Assistant Application** : A web application for daily task management of users. Included security features like bcrypt algorithm for user password hashing and secure authentication. Used mongoose library for effective database related operations. Implemented REST APIs for effective backend functionality to the UI.
  Technologies used - **JS, Nodejs, Express, MongoDB**
- **Covid-19 Detector** : Developed a ML model that uses CNN (ResNet-18) to classify lung X-rays into covid-19/normal/viral (pneumonia) using transfer learning. Achieved 95 % accuracy on testset.
  Technologies used - **Python, Keras**
- **Club App** : An android application for college club, Implemented features like authentication via Firebase Database and Recycler View.
  Technologies used - **Kotlin, Firebase Database**

Extra - Curricular

- Ranked 2819 globally at Google Kickstart Round E - 2021
- Participated in National Hackathon - Amazon HackOn 2021
- Active participation on online competitive coding websites - CodeForces, Spoj, Atcoder, etc. Member Handle - Darkknight811 (max. specialist)
- Coordinator at Math & Tech Club, NITDGP

More

http://rkg-portfolio.herokuapp.com/