

RUPESH KUMAR DUBEY

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Address: Prayagraj, Uttar Pradesh

EDUCATION

2020 - 2025	Jawaharlal Nehru University <i>B.tech+M.tech Integrated Course, Computer Science Engineering : 7.71/10</i>	New Delhi, India
2018 - 2019	New R.S.J Public School <i>CBSE Intermediate (Class XII) Percentage : 88%</i>	Prayagraj, India
2016 - 2017	New R.S.J Public School <i>CBSE High School (Class X) CGPA: 10/10</i>	Prayagraj, India

SKILLS AND ACHIEVEMENTS

Coding Languages	HTML, CSS, Python, JavaScript, C, C++
Relevant Skillset	Numpy, Pandas, Keras, Tensorflow, Sklearn, React Js, NodeJs (Intermediate)
Technical Skillset	Data Structures and Algorithms, Git, Web Development, Machine Learning
Coursework	Database Management Systems, Data Structures, Design and Analysis of Algorithms, Operating Systems, Object Oriented Programming, Computer Networks, Software Engineering, Digital Image Processing

WORK EXPERIENCE

2022	Developing Intern, Octaware Technologies <ul style="list-style-type: none">Organizational ethos prioritized a strong emphasis on front-end development.Utilized Node.JS to code and debug software components.Collaborated within an agile development team, participating in daily stand-ups, to identify and resolve bugs, ensuring error-free code.
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PROJECTS AND RESEARCH

2023	Resilience of Delhi Road Networks to Traffic Disruptions <ul style="list-style-type: none">Examined the resilience of Delhi Road Networks, from Open Transit Data- Delhi, using Network Science to develop a more resilient traffic model.Analysis based on network library, Directed Acyclic Graph, and degree distributionResults depicted Scale-free property, Power-Law Distribution, and stimulated disruptions followed by recovery strategies depicted pliability.With a Change in Degree of Robustness of about 0.232% and a standard deviation of 0.672%.Demonstrating the inherent resilience of the Delhi Road network, by its scale-free property.
2022	Efficiency of Raindrop Detection and Removal Models on Monocular Images <ul style="list-style-type: none">Examined performance metrics of Detection Algorithms based on CNN.Updated the raindrop removal algorithm for Tensorflow 3. x versions, and analyzed the metrics.Metrics depicted a fair percentage of (82 +- 0.65)% accuracy to the test dataset.The model involves residual blocks (ResNet-50) with attention mechanisms and subsequent convolutional layers for feature extraction using 'ResnetBlock_att'.
2023	Computational library for C++(Similar to Numpy in Python) <ul style="list-style-type: none">Imitates the tensor behavior i.e. Creation, Broadcasting etc.Integrated NumPy-like features into the library, allowing developers familiarEnsured cross-language compatibility by aligning the library's syntax and functionality closely with NumPyUtilized version control systems such as Git to maintain a structured and collaborative development environment

CERTIFICATIONS

Python and Data Structures (**Coursera, 2020**) , Mastering Data Structures and Algorithms using C and C++ (**Udemy, 2021**), Google Data Studio (**Enrolled**), Google Cloud Fundamentals: Core Infrastructure (**Coursera**)

EXTRACURRICULAR ACTIVITIES

2023	Coordinator	Disha, an event on Entrepreneurship
2022	Perforemer	Show-cased on various Stage Events as Guitarist.

GAMES & ACTIVITIES

Inter-Batch Chess Champion

JNU, School of Engineering