

Rajat Mittal

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EDUCATION

Indian Institute of Technology (IIT), Jammu <i>Master of Technology in Computer Technology — CGPA-9.03/10</i>	Jammu Sep. 2020 – Present
JK Institute of Applied Physics & Technology, University of Allahabad <i>Bachelor of Technology in Computer Science & Engineering — 74.47%</i>	Allahabad Aug. 2016 – Sep 2020
Bhartiya Sr Sec School <i>Class XII — 94.60%, PCM-100%</i>	Sikar 2015
Bhartiya Sr Sec School <i>Class X — 92.50%</i>	Sikar 2013

TECHNICAL SKILLS

Languages: C, C++, Python, SQL, HTML, CSS

Libraries: NumPy, Pandas, Matplotlib, Seaborn

Developer Tools: VS Code, Jupyter Lab

Softwares: Git, MySQL

Platforms: Linux, Windows

Miscellaneous: Data Structures and Algorithms, Object-Oriented Programming, Machine Learning, Deep Learning, Computer Vision, Competitive Programming

EXPERIENCE

Engineering & Technology Intern <i>Baker Hughes, a GE Company</i> <ul style="list-style-type: none">• Worked as an Intern in Digital team under TPS.• Applied Natural Language Processing(NLP) techniques and analyzed the prediction using feature engineering.• Reduced multiple features from the existence models and provided the best features for the prediction.• Collected data from the team center of the organization using SQL queries.• Improved accuracy of the prediction tool from 55% to 85%.	Dec 2021 – Feb 2022 <i>Full-Time, Remote</i>
Product Analyst Intern <i>Magicpin Pvt. Ltd.</i> <ul style="list-style-type: none">• Worked as an Intern in Growth Team here.• Intended to increase the number of users of the Magicpin App.• Automated sending of WhatsApp messages using Python scripts for Millions of users.• Sent Daily Push Notifications in User set fetched through SQL Queries defined upon users, locations and merchants.• Achieved a big number of clicks through WhatsApp and Push Notifications.	Oct 2021 – Dec 2021 <i>Part-Time, Remote</i>
Data Scientist Intern <i>Ericsson Global (R & D) GAIA</i> <ul style="list-style-type: none">• Worked as an Intern @ Global AI Accelerator (GAIA) Research and Development unit.• Used Probabilistic Graphical Models (Bayesian Networks) to understand the dependencies between current hardware of cell tower.• Implemented a research paper : DAGs with NO TEARS: Continuous Optimization for Structure Learning and applied on company's cell tower's data.• Detected faults with 82% accuracy in cell-towers using Bayesian networks.• Reduced laborious work of climbing towers by detecting faults from system itself.	Jul 2021 – Dec 2021 <i>Full-Time, Remote</i>
Research Assistant <i>IIT Jammu</i> <ul style="list-style-type: none">• Working in Central Computing and Communication Infrastructure (C3I), IIT Jammu.• Managing High-Performance Computing System at Agastya- IIT Jammu• Assisting faculties and students in using HPC and Cloud Services efficiently.	Sep 2020 – Present <i>Full-Time, Jammu, IN</i>

PROJECTS

Mocking Bot | *Sklearn, NumPy, Pandas, Wave, Struct*

E-Yantra, IIT Bombay

- Developed a prediction tool of Notes and Instrument in a given Audio file in a team of four members.
- Used SVM classifier to detect the instrument being played in an audio file, along with all the notes and frequencies present in the audio file.
- Extended it to make a robotic system that would mimic the audio, based on the results given by the classifier.
- Reached in the pre-final round after clearing five competitive stages.

Weather Forecasting System | *Python, Numpy, Pandas, Sklearn, IoT*

Asst. Prof. BN Subudhi IIT Jammu

- Deployed IoT Sensors for Temperature & Humidity, Soil Moisture, Air Quality Index and Deflection with the main Gateway node.
- Collected real-time data through sensors over a cloud using a small private network maintained in the gateway.
- Forecasted weather (Temperature, Humidity) for the IIT Jammu campus using Machine Learning techniques.
- Predicted landslides in the hilly areas using soil moisture and deflection sensor by setting some threshold value of deflection in particular axis and observing previous data of soil.

Data Organization and Information Retrieval System | *Python, NLP*

Prof. Virendra Singh, IIT Bombay

- Performed text pre-processing on web data over a corpus of 2000+ documents.
- Preprocessed documents by removing stop words, tokenizing and all to get the processed document for further indexing.
- Created a dictionary (key-value pair) consisting of DocID as key and the frequency of that word as the value in that document.
- Created inverted index where implemented Boolean queries and Phrase queries to get the required documents.

RELEVANT COURSEWORK

- Data Structures & Algorithms, Operating Systems, Linear Algebra, Machine Learning, Deep Learning, Computer Vision, High Performance Computing Systems, Computer Networks

SCHOLASTIC ACHIEVEMENTS

- Topper of M.Tech. Computer Technology at IIT Jammu for consecutive two semesters.
- Scored 100% PCM (Physics, Chemistry, Maths) Marks in 12th Standard Examinations.
- 15th District Merit and 31st in Rajasthan State Board in 10th Standard.
- Received an HP laptop for exceptional performance in 10th Standard under Rajeev Gandhi Vidyarthi Digital Yojana.

EXTRACURRICULAR & ACHIEVEMENTS

- Qualified Google Code Jam 2020 Qualification round 2020.
- Participated in SnackDown 2019 and reached to Pre-elimination round.
- 3 * active coder on CodeChef.
- Active user on HackerEarth & GeeksForGeeks (solved around 500+ problems).

POSITIONS OF RESPONSIBILITIES

Training & Placement Representative | *Career & Development Cell, IIT Jammu*

- * Connecting industries with college campus for the placements.
- * Coordinating students with their placements and managing the several trainings and workshops.

Coding Club - CODICIAN | *JKIAPT, Allahabad*

- * Core member of Coding Club – Codician at JK Institute, University of Allahabad.
- * Hosted various coding contests on HackerEarth for junior students of the college.