



# Rajat Mittal

Applied Scientist, Amazon  
M.Tech. by Research  
Indian Institute of Technology, Jammu

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## EDUCATION

Degree/Certificate	Institute/University	CGPA/Percentage	Year
M.Tech.(CSE)	Indian Institute of Technology (IIT), Jammu	8.67	2020-2023
B.Tech.(CSE)	University of Allahabad, Prayagraj	74.47%	2016-2020
Senior Secondary	Bhartiya Sr Sec School, Sikar	94.60%	2015
Secondary	Bhartiya Sr Sec School, Sikar	92.50%	2013

## EXPERIENCE

- Amazon Development Center** Feb 2023 – Present  
*Applied Scientist I* Bengaluru, IN
  - Working on deals sourcing and ranking models for Amazon's Deals of the Day & Lightning Deals events.
  - Boosted performance by **4%** for billions of products by using embedding-based enhancements in the network.
- Zomato Limited** Aug 2022 – Nov 2022  
*Machine Learning Intern* Gurgaon, IN
  - Leveraged reinforcement learning to deliver personalized food/grocery ordering recommendations.
  - Incorporated the **Facebook ReAgent** model to enhance the existing model's performance by **29%**.
- Baker Hughes, a GE Company** Dec 2021 – Feb 2022  
*Engineering & Technology Intern* Bengaluru, IN
  - Streamlined complaints classification for departments by **91%** using ML and NLP methods.
  - Utilized SQL queries to extract previous data and successfully classified issue types for departments.
- Ericsson Global (R&D) GAIA** Jul 2021 – Dec 2021  
*Data Scientist Intern* Bengaluru, IN
  - Reduced time and human efforts by **200x** using automation of detecting faults in cell towers using ML models.
  - Implemented a research paper called **NO TEARS** on the company's telecom dataset to achieve the same.

## PROJECTS

- Temporal Action Localization in Untrimmed Videos** *Asst. Prof. Badri Subudhi, IIT Jammu*  
*Python, PyTorch, Deep Learning, Object Detection, Transformers*
  - Developed a simpler encoder-decoder-based model for temporal action localization in untrimmed videos.
  - Implemented a temporal averager for action localization (TAAL) module, effectively extracting informative features from nearby clip embeddings and outperforming current state-of-the-art methods on benchmarked datasets.
- Mocking Bot - Audio Mimicry System** *E-Yantra, IIT Bombay*  
*Python, Machine Learning, Sklearn, NumPy, Pandas, Wave* [Link 1](#) | [2](#)
  - Developed a prediction tool of audio notes and instruments from a provided audio input file.
  - Expanded the tool into a robotic hardware system that emulates the audio generated by the classifiers' outcomes.

## TECHNICAL SKILLS

- Programming & Query Languages:** C, C++, Javascript, Python, PySpark, HTML, CSS, SQL
- Tools & OS:** AWS Tools, GCP, Git, Jupyter, VS Code, Linux, Windows, L<sup>A</sup>T<sub>E</sub>X
- Libraries/Frameworks:** PyTorch, TensorFlow, nltk, scikit-learn, pandas, NLP, Transformers, BERT, LLMs
- Miscellaneous:** Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Databases

## POSITIONS OF RESPONSIBILITY

- Research Assistant:** Central Computing and Communication Infrastructure, IIT Jammu 2020 - 2023
- Training & Placement Representative:** Career & Development Services, IIT Jammu 2021 - 2023
- Coding Club:** Founding member of Coding Club – Codician at CSE Department (UG) 2018 - 2020

## ACHIEVEMENTS

- 1000+** Problems solved on different coding platforms like [Leetcode](#), [HackerEarth](#), [GFG](#), [Codechef](#) etc.
- Selected among 20k+ students for Amazon's Machine Learning program, also offered Applied Scientist internship.
- Qualified multiple coding contests like Google Codejam, Codechef SnackDown, Google KickStart etc.
- Achieved the highest academic performance in M.Tech. Computer Technology at IIT Jammu.
- Scored **100% PCM** (Physics, Chemistry, Maths) Marks in Senior School board examinations.