

# MEET BANTHIA

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## Education

### New York University - Courant Institute

Aug 2025 – May 2027

*Master of Science in Computer Science*

### National Institute of Technology Karnataka, Surathkal

Dec 2021 – May 2025

*Bachelor of Technology in Computer Science and Engineering*

*CGPA: 8.51/10*

## Experience

### Oracle - Server Technology Intern

May 2024 – Jul 2024

- Designed and implemented a Continuous Integration/Continuous Deployment (CI/CD) pipeline serving as the quality gatekeeper for Cloud Platform Services.
- Configured automated triggers for new service releases from active branches.
- Integrated automated test execution on Preflight (Gamma stage) environments where services were deployed in real-time.
- Established a 95% minimum pass rate threshold for integrated tests before upstream promotion to Fusion Apps.

### Healthcare Analytics and Language Engineering Lab - NLP Intern [\[GitHub\]](#)

May 2023 – Aug 2023

- Developed a novel algorithm for acronym-to-expansion mapping, addressing ambiguity in Indian legal judgments.
- Built *dataset* of 70 legal judgments with 15,000+ annotated sentences, in collaboration with law students.
- Conducted evaluations with large language models (T5, LLaMA, Gemini) to benchmark summarization quality and compare performance.

## Projects

### TwoDkSup 3 Approximation Algorithm [\[GitHub\]](#)

May 2025 – Jul 2025

- Implemented a 3-approximation algorithm for the 2-Dynamic k-Supplier problem to achieve clustering across time.
- Developed a flow-network-based solution for modeling dynamic supplier-client assignments under temporal constraints.
- Constructed cluster centers using  $2R^*$  radius circles around clients, introducing dummy clusters when fewer than  $k$ .
- Explored optimization with Gurobi to evaluate performance trade-offs and improve solution quality.

### Dual Proxy Project

Aug 2024 – Dec 2024

- Worked on this project under Prof. Mohit P Tahiliani as part of a funded project by *Outside The Stacks*
- Designed and deployed dual proxy systems to enable secure communication in a complex networking environment.
- Gained hands-on experience with TLS protocols and OpenSSL, focusing on real-world security configurations.
- Resolved compatibility issues with TLS 1.3's PSK-only mode, implementing fixes to ensure secure connections.
- Strengthened expertise in advanced C++, JNI, multithreading, and systems programming through proxy developments.

## Technical Skills

**Languages:** C/C++, Rust, Python, Standard ML, SQL

**Developer Tools:** Git, Jenkins, Postman, Docker

**ML Toolkit :** Scikit-learn, Pandas, NLTK, LexNLP, Keras, TensorFlow, PyTorch, NumPy, OpenCV

**Relevant Coursework:** Honors Analysis of Algorithms, Programming Parallel Algorithms, ML Systems, Computer Networks, Wireless Networks, Cloud Computing, Cloud Networking, Digital Image Processing, Operating Systems, Database Management System, Compiler Design, Advanced Data Structures, Discrete Mathematics, Approximation Algorithms

## Volunteering

### IEEE NITK - Executive Member, CompSoc Group

Nov 2022 – May 2025

- Organized and managed multiple technical events and hackathons including **Silicon Maze**, **Eureka**, **Praelium**

### Web Enthusiasts' Club, NITK — Executive Member, Algorithm Group

Nov 2022 – May 2025

- Organized and managed technical events and hackathons like **CPLeague**

## Achievements

- Secured **All India Rank 1117** in JEE MAINS among more than 1.2M+ candidates.
- Secured **All India Rank 2697** in JEE ADVANCE among 200K+ candidates
- Consecutively secured **Gold Medal** in INTER NIT Table Tennis tournaments 2022-23(NIT Silchar), 2023-24(NIT Jamshedpur). 2024-25(NIT Jalandhar)