

# ARNAB BHOWAL

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## EDUCATION

**New York University** (Fall 2024 student) **Brooklyn, NY**  
Master of Science in Computer Engineering **September 2024 - July 2026**  
**Key Coursework:** Machine Learning, Data Structures & Algorithms, Real-time embedded system

**New Horizon College of Engineering | CGPA: 9.46/10** **Bengaluru, India**  
Bachelor of Engineering in Information Science & Engineering **August 2016 - August 2020**  
**Key Coursework:** Object-Oriented Programming, DBMS, Python, Data Analytics, Engineering Mathematics

## SKILLS

**Languages:** Python, Java, JavaScript, C++, SQL  
**Applications:** PyCharm, Jupyter, GitHub, Jira, IntelliJ, Eclipse, Postman.  
**Technical Skills:** Data Structures and Algorithms (DSA), Agile, Problem-solving, Logic building.  
**Soft Skills:** Effective Communication, Time Management, Critical Thinking, Adaptability, Teamwork.  
**Technologies:** React, Spring Boot, Node.js, REST API, MySQL, MongoDB, Git, Numpy, Pandas, Matplotlib.

## EXPERIENCE

**Capgemini** **Bengaluru, India**  
**Professional-I, Software Engineer** **September 2020 - July 2024**

- Led product lifecycle management and customized ENOVIA PLM software for Stellantis.
- Emphasized front-end & back-end customization, and system integration spanning 4+ teams.
- Improved engineering data management across 14 automotive brands, thereby boosting production and sales.
- Facilitated 10+ knowledge sharing sessions, engaging 30+ members & increasing team collaboration by 30%.
- Developed interfaces for Cron jobs to extract engineering data for daily batch transfers between Stellantis & ATOS teams, handling millions of data daily.

**SmallBzr - Startup** **Bengaluru, India**  
**Full-Stack Web Developer Intern** **February 2020 - July 2020**

- Designed the front-end of the website for the WisTuition platform, connecting 50+ tutors with students nearby.
- Introduced features that enhanced tutor-student matching and communication by 40% based on locality.
- Administered back-end using a robust database handling 1,000+ records efficiently with MySQL.
- Deployed the site on SiteGround for 99.9% uptime and utilized Bitbucket for version control, enhancing collaborative development efficiency by 30%

## PROJECTS

### Pickle – AI-Powered Decision Assistant

**Winner – HackNYU 2025: Best Use of Gen-AI** (International Hackathon with 650+ participants & 155+ teams)

**Devpost Submission** - Pickle on devpost: <https://devpost.com/software/pickle-frgobu>

**Tech Stack:** Flutter, Flask (Python), DeepSeek, Perplexity, OpenPerplex, Gemini

- Developed Pickle, an AI-powered assistant with a Flutter-based UI and Flask backend, leveraging LLMs to provide personalized recommendations for movies, food, travel, and task prioritization.

### Drone-Assisted Effective Pesticide Sprayer

**Tech Stack:** Python, YOLO V3, Computer Vision, Convolutional Neural Network (CNN), LabelImg

**International Research Paper Published:** [IJSR CSEIT](https://ijsrceit.com/paper/CSEIT206381.pdf) - <https://ijsrceit.com/paper/CSEIT206381.pdf>

- Built a machine learning-driven, drone-integrated object detection model to automate pesticide application & crop detection, reducing labor-intensive methods in India's agriculture sector, employing 60% of its population.

## LEADERSHIP

- Earned award of honor for spearheading and coordinating QuBytes 2k19, a state-level intercollegiate tech fest with over 1,000 participants from 20+ colleges, to showcase their talents across 15+ events.

## ACHIEVEMENTS

- Winner of HackNYU 2025 for best use of Gen-AI - largest student organized hackathon in NYC.
- Achieved 1st position out of 150 competitors in the CodeLingus coding contest hosted by the ISE department.
- Secured 2nd place among 200 participants in Enigma Cybersecurity Challenge organized by i-CSEH club.