Ankith Kumar

Email: cankithkumar2004@gmail.com **GitHub:** https://github.com/iamankithkumar
Phone: +91 7569197164 **LinkedIn:** https://www.linkedin.com/in/ankith-kumar-6b13bb283/

Education

- **Indian Institute of Technology (IIT) Patna** Patna, India
  *(BTech in Artificial Intelligence and Data Science. **CPI: 8.01**)* *July 2021 - May 2025 (Expected)*
- **Narayana Junior College** Hyderabad, India
  *(Senior Secondary High School, Telangana Board of Intermediate Education. **Percentage: 98.8**%)Apr 2019 - Mar 2021*
- **Narayana School** Anantapur, India
  *(High School, The Board of Secondary Education of AP (BSEAP). **CGPA: 10**)*

Accomplishments

- Secured an All India Rank in the top **4%** out of more than **0.17** million candidates in JEE Advanced 2021.
- **Got selected for the Indian National Mathematical Olympiad (INMO)**

Projects

- **Optimal Data Centre selection for MSC** Aug '24 - Present
  Prof. Arijit Roy
  - The project focuses on optimizing the selection of a data center (DC) in a sensor-cloud to maximize the quality of service (QoS) for applications, considering the performance of virtual sensors (VSs) stored in different DCs.
  - The project also takes into account the payoff or income received by users based on the correct selection of data centers, ensuring that approving good DCs and rejecting bad ones maximizes user satisfaction and overall system efficiency.
- **Commercial Parking System and Number Plate Detection** **Source Code**
  Prof. Jimson Mathew *Jan '24 - Apr '24*
  - Implemented a computer vision-based slot detection and monitoring system using camera calibration, ArUco markers, and OpenCV, enhancing parking efficiency and management in urban areas.
  - Designed a regression-based model to predict parking slot prices based on multiple factors, including time, day, and customer type, improving the system's adaptability and profitability
- **Deep Learning - Anamoly Detection** **Source Code**
  Prof. Arijit Mondal *Nov '23 - Dec '23*
  - Used an Lstm autoencoder followed by the evaluation of the anomaly detection performance using precision, recall, and F1 score across multiple iterations
  - The performance measures are calculated and averaged over multiple iterations, providing an overall assessment of the model's effectiveness in detecting anomalies in the given dataset.

Skills/Relevant coursework

- **Programming/Development Languages:** C/C++, Python, HTML, CSS, PHP, SQL, NoSQL
- **Core Courses:** Algorithms and Data Structures, Machine Learning and Data Science, Computer Architecture, Database Management Systems, Computer Networks, Operating Systems, Deep Learning, Computer Vision
- **Professional Skills:** Internet of Things(IoT), Verilog (**codes**), MIPS (**codes**), MySQL

Coding Handles

- **Codeforces** **Leetcode**