Ankit Patil

Binghamton, NY | +1(646)-520-5468 | apatil@binghamton.edu | linkedin.com/in/ankit-patil-090a3b215/ | github.com/ankitpatil3003

EDUCATION

Binghamton University, State University of New York, NY, USA
Master of Science in Computer Science   **Jan 2023 - Dec 2024**

KK Wagh Institute of Engineering, Education & Research, Nashik, India
Bachelor of Science in Computer Engineering   **Jun 2018 - Jun 2022**

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Java, JavaScript
Frameworks: HTML, CSS, ReactJS, PHP
Databases: MySQL, DB, MariaDB Cloud, Firebase
Technologies: Google Cloud Platform, Docker, Kubernetes, AWS, Arduino UNO, Node MCU
Relevant Courses: Cloud Computing, Programming Languages, Data Structures & Algorithms, Operating Systems, Social Media Pipeline, Design Patterns, Computer Architecture and Organization, Software & Project Management, Systems Programming, Computer Security
Software and OS: Git, IDLE, Linux, OS 10

PROJECT EXPERIENCE

Pickup Box | Binghamton, NY, USA | *Team Members – 2*   **Jan 2024 – Jan 2024**
- This Project had a time constraint of 24 hours in Hackathon Competition (HACKBU) conducted in Binghamton University on 01/16/2024 to 01/17/2024
- In this Project, Users can explore an interactive map to locate nearby streets and potential giveaway spots. The map is integrated with the KivyMD library, providing a smooth and user-friendly interface for navigation.
- They can mark specific locations on the map where they find free giveaway products categoring into two main types, "Decor" and "Electronics," help users filter and find specific types of free items.

Analyzing Political Trends on Social Media | Binghamton, NY, USA | *Team Members – 5*   **Aug 2023 – Dec 2023**
- Conducted in-depth analysis of social media trends using data analytics and sentiment analysis, revealing prevalent political currents and public sentiments in the digital age.
- Applied data-driven techniques to identify patterns, trends, and sentiments on platforms such as Reddit and 4Chan, offering insights into diverse perspectives, political affiliations, and emotional dynamics in contemporary political engagement.
- Investigated and addressed the prevalence, origins, and impact of hate speech and online abuse in the online political landscape, developing strategies to mitigate harm and contributing to a nuanced understanding of digitally connected political discourse.

IoT Device Automation using Cloud Services | Binghamton, NY, USA | *Team Members - 5*   **Jan 2023 - May 2023**
- Architected low-cost & scalable home automation system using the Arduino UNO microcontroller & web-based application, which uses Google App Engine & Firebase to enable remote access to control light bulb
- Created a responsive dashboard using Firebase for real-time updates on the status of the light bulb status and the light dimmer value
- Used Speech-to-Text API to provide voice control functionality, enabling users to switch the light bulb on or off with voice commands
- Displayed physical output via a relay connected circuit to Node MCU ESP8266, allowing the light bulb to be controlled via the website

Real-Time Image Caption Generator | Nashik, India | *Team Members - 4*   **Jan 2021 - May 2022**
- Developed and implemented computer vision algorithms to capture real-time images and recognize contextual information in images
- Implemented a CNN-RNN model for image captioning, using advanced deep learning techniques such as Convolutional Neural Networks (CNNs), Long Short-Term Memory (LSTM), and Recurrent Neural Networks (RNNs)
- Preprocessed and tokenized the vocabulary to enable correct image captioning and seamless integration with the CNN-RNN model
- Conducted rigorous testing of the model by capturing real-time images and evaluating the accuracy and fluency of generated captions
- Tech stack: CNN, LSTM, RNN, Exception model

Tuition Management System | Nashik, India | *Team Members - 4*   **Jan 2021 - Jun 2021**
- Created & managed a comprehensive database using MySQL, to store and organize user data for students, teachers, subjects, and classes
- Developed a user-friendly interface, including login creation for users, teachers' and students' sections, and a finance section that enabled e-receipt download
- Designed and implemented a timetable management system that allowed teachers and students to view and manage class schedules by subject, ensuring efficient and organized learning
- Tech stack: HTML, CSS, JavaScript, MySQL

ACHIEVEMEMNTS
- Awarded 3rd Prize in a DBMS-competition for Tuition Management System Project
- Received 3rd Place in 30-minute seminar on the "Comparison of Various Object Detection Frameworks and Retraining YOLOv3 for UAV camera" to share insights on advanced object detection techniques & discussed the use of the YOLOv3 model for crowd detection and its accuracy in different object detection frameworks
- Completed an Ethical Hacking Course online from Internshalla.