# ADARSH KUMAR

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## EDUCATION

**Amity University** | Bachelor of Technology: *Artificial Intelligence* | **CGPA: 8.34** **Sep 2020- Jul 2024**

## PROJECTS

### Robotics | Home Automation | Hardware Project | Arduino Uno

- Designed and built robotic systems, leveraging Arduino Uno for precise control and integration with various sensors and actuators.
- Created automated home solutions using Arduino Uno and bluetooth, enabling wireless control of lights and electronic devices.
- Led hardware projects involving Arduino Uno, focusing on integrating Bluetooth modules to control and automate electronic devices efficiently.
- Implemented Bluetooth technology to enable on/off control of lights and electronic devices, enhancing smart home automation capabilities.

### Face Mask Detection | Python | Deep Learning | GitHub

- Developed and optimized deep learning models using TensorFlow, Keras, and CNNs, implementing early stopping and learning rate reduction techniques.
- Performed data analysis with Pandas, visualized results using Matplotlib and Seaborn, and managed datasets with XML parsing and file handling.
- Utilized OpenCV and PIL for image processing, and evaluated model performance with metrics like accuracy, precision, recall, and F1 score.

### Classifying Poem Sentiments | Deep Learning | LSTM | CNN | GitHub

- Developed a sentiment classification system for poems using Long Short-Term Memory (LSTM) and Convolutional Neural Networks (CNN) for accurate analysis.
- Implemented LSTM and CNN architectures to analyze and classify sentiments in text data, enhancing performance in natural language processing tasks.
- Trained and fine-tuned deep learning models, including LSTM and CNN, to improve sentiment prediction accuracy for poetry and other text-based data.
- Evaluated model performance using metrics such as accuracy, precision, recall, and F1 score to ensure reliable sentiment classification results.

### PORTFOLIO | Web Development | HTML | CSS | JavaScript | GitHub

- Crafted clean, semantic HTML code to structure web pages effectively, enhancing accessibility and SEO optimization.
- Styled websites with CSS, implementing modern design principles and responsive layouts to create visually appealing and adaptable web pages.
- Enhanced website interactivity and functionality through JavaScript, creating engaging user experiences and dynamic content updates.

## SKILLS

**Programming Languages**: Python, JavaScript, C, C++, SQL

**Web Development:** React, NODE.JS, HTML, CSS

**Data Science & Analytics:** Data Science, Artificial Intelligence, Machine Learning, Deep Learning, Blockchain

## (IESM-2022) & TECH-YATRA International Conference

**INNOVATIVE PRACTICES IN ENGINEERING SCIENCES & MANAGEMENT**

- Authored | Paper Title- Conceptual Understanding of Deep Learning Theory and Techniques | ISBN: 978-81-956917-0-8
- Co-authored | Paper Title- Blockchain Technology and Architecture | ISBN: 978-81-956917-0-8
- Co-authored | Paper Title- Comprehensive Study of Convolutional Neural Networks | ISBN: 978-81-956917-0-8

## ACHIEVEMENT

- **Cisco Certified Network Associate**: Introduction to Networks
- **Data Security Council of India**: Embedded Security CTF 2022
- **Smart India Hackathon:** Qualified Preliminary Round in SIH 2022