

# Amit Munna Gupta

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## EDUCATION

### University of Texas at Arlington

Arlington, Texas

*Masters in Computer Science*

2022 – Present

Relevant Coursework: Machine Learning, Data Mining, Design and Analysis of Algorithms, Software Engineering, Data Analytics, and Modeling Techniques.

### VIVA Institute of Technology

Mumbai, India

*BE Computer Engineering*

2018 – 2022

Relevant Coursework: Artificial Intelligence, Structured Programming Approach, Data Structures, Computer Graphics, Operating Systems.

## PROJECTS

### DRISHYAM – An Interpreter for Deaf or Mute Person

- Conducted extensive research on the challenges faced by deaf and mute individuals and developed a solution for communication through sign language interpretation.

### Smart Surveillance System

- Designed and developed a system to detect unusual activities and respond promptly with notifications to the nearest available officer.

### SPYDER

- Developed a package available on the Flutter developer community that provides encryption and decryption functionality.

### SPYRO

- Created an e-commerce application with a feature to detect nearby stores and an in-app chat for customers to communicate with store owners.

## INTERNSHIPS

### PayNav

Sept 2021 – Dec 2021

- Developed the front end of a finance management application utilizing Flutter.
- Took charge of the backend of the application and designed an algorithm to efficiently manage transactions and keep the database updated in real time.

### e-Yantra Summer Internship Program (e-YSIP, IIT Bombay)

May 2020 – June 2020

- Designed and developed a prototype for a self-driving robot controlled by a smartphone and created a mobile app to control the robot using machine learning algorithms to predict the required steering angle.

## FREELANCE PROJECTS

### Kataria Plastics Private Limited

Jan 2021 – Feb 2021

- Designed the interface for the logistics and transportation and created a Web Application along with Mobile App to enable bidding of the consignments to the truck drivers.
- Handled the incoming bidding data in the database and created Notification modules.

### Believe ExIm

Dec 2020 – Jan 2021

- Developed a Static Web page to show case the items imported/exported by the company.

## SKILLS

- Databases: Oracle, MySQL, Firebase
- Languages: Python, Java, C/C++, SQL, JavaScript, HTML/XML, Flutter, React
- Framework: Android Mobile Application Development
- Tools: Virtual Studio Code, Jupyter Notebooks, IntelliJ, GitHub, GitLab

## PUBLICATIONS

- Amit Gupta, S. S. Koltharkar, H. D. Patel and S. Naik, "DRISHYAM: An Interpreter for Deaf and Mute using Single Shot Detector Model," 2022 8th International Conference on Advanced Computing and Communication Systems (ICACCS), 2022, pp. 365-371, DOI: 10.1109/ICACCS54159.2022.9785254
- Amit Gupta, S. S. Koltharkar and H. D. Patel, "A review on the perception and recognition systems for interpreting Sign Languages used by Deaf and Mute," 10th National Conference on Role of Engineers in Nation Building (NCRENB), Volume 1, Issue 5 (2022), ISSN(Online): 2581-7280