Amit Munna Gupta

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EDUCATION

University of Texas at Arlington   **Arlington, Texas**
Masters in Computer Science   2022 – Present
VIVA Institute of Technology   **Mumbai, India**
BE Computer Engineering   2018 – 2022

PROJECTS

DRISHYAM – An Interpreter for Deaf or Mute Person
- Conducted in-depth research on difficulties experienced by deaf and mute individuals, impacting approximately 466 million people globally according to WHO.
- Developed a solution involving sign language interpretation, enhancing accessibility for this community.

SMART SURVEILLANCE SYSTEM
- Built a detection system that improved abnormal activity tracking by 30%, enhancing public safety.
- Designed it to send immediate alerts to the nearest officer, increasing the response rate by 25%.

SPYDER
- Created an encryption and decryption package catered to the Flutter developer community.
- Made the package readily accessible for utilization within the community.

SPYRO
- Cultivated an e-commerce application with capabilities to pinpoint nearby retailers.
- Integrated an in-app chat mechanism to facilitate direct interaction between customers and store owners.

INTERNSHIPS

PayNav   Sept 2021 – Dec 2021
- Conceived and executed the user interface of a financial management application employing Flutter.
- Managed backend operations, increasing transaction efficiency by 20% and maintaining real-time database updates.

e-Yantra Summer Internship Program (e-YSIP, IIT Bombay)   May 2020 – June 2020
- Collaboratively designed and constructed a prototype for a self-driving robot, controllable via a smartphone.
- Guided the development of a mobile application to oversee the robot's operations.
- Implemented machine learning algorithms to predict the necessary steering angle for the robot.

FREELANCE PROJECTS

Kataria Plastics Private Limited   Jan 2021 – Feb 2021
- Devised a web and mobile application for consignment bidding, increasing bid participation by 30%.
- Handled the incoming bidding data in the database and created Notification modules.

Believe ExIm   Dec 2020 – Jan 2021
- Constructed a static webpage to display the company's import/export products.
- The webpage acted as a platform to highlight the company's trade operations, boosting visibility by 25%.

SKILLS

- Databases: Oracle, MySQL, Firebase
- Languages: Python, Java, C/C++, SQL, JavaScript, HTML/XML, Flutter, React
- Framework: Android Mobile Application Development, tensorflow, pytorch
- 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