Pratibha Awasthi

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Education

International Technical University	**Expected: Dec 2024**

Master of Science, Computer Engineering

Rajiv Gandhi Technical University	**Jun 2015 – Aug 2019**

Bachelor's in engineering, Electrical & Electronics

Work Experience

EmbedVision Infotech -R&D	**Jan 2018 – Apr 2018**

Software Developer Intern

- Developed a dual-functional application for luggage that manages the travel needs and enables the luggage to follow the owner.
- Built an application using android studio that adds new travel information, set traveling time, create a checklist of carry-on essentials, set reminder and suggests carry items based on travel history.
- Managed and connected data to Android application through MySQL and Flask.
- Designed a Raspberry Pi based auto-follow system for luggage that tracks the owner's motion using tracking API of OpenCV.

EmbedVISION Infotech - Hardware	**Aug 2017 – Nov 2017**

Software Developer Intern

- Built a moveable robot and gripper arm using a microcontroller for a Non-Profit organization.
- Coded using C language scripts on Keil IDE and designed prototype using Proteus ISIS to test and debug complete embedded system.
- Achieved better performance by increasing the efficiency by 30% and reducing power consumption by 20%.

Hewlett Packard	**Jan 2017 – Apr 2017**

Software Engineering Intern

- Developed a sensor that monitors air quality, gives audible warning on airborne contaminants and stores history of contamination using Microsoft Azure as a cloud-based data storage.
- Applied MRAA and UPM libraries with C++ language on Intel System Studio to interface Air quality sensors and buzzers.

Projects

Market Place

- Developed a Single Page e-commerce application with functionalities like view list of products, product description, product price, add to cart, delete from cart, view products in cart, total price of product cart and checkout to payments using technologies db-migrate, NodeJs, Angular and express.
- Expanded additional back-end functionalities like login as user, access to user-page, show orders at user-page, login as admin, add & delete product in store, exchange data on listings, orders, payments and reports using technologies

German Traffic Sign Classification & Detection

- Classified, detected and recognized traffic signs on multi-class dataset using CNN for classification, YOLO for identification with implementation of OpenCV, Tensorflow, Keras and Darknet.
- Accomplished improved performance of model by 10% employing data augmentation and enhanced forecast accuracy by 15% adding drop out layers and batch normalization.
- Achieved 95% classification accuracy and accurately categorized 43 different types of traffic signs.

Technical Skills

- **Programming Languages:** JavaScript, Python, CSS, HTML, Java, SQL, C, C++, PHP
- **Databases and Tools:** MySQL, MongoDB, Jupyter Notebook
- **Frameworks:** Node.js, React.js
- **Applications:** API design, relational databases, unit, integration & E2E testing