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# Education

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| 2020 – 2024Bachelors in Computer Science, University of management and technology, 3.05 |
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# Projects

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| Final year projectSoil nutrient detection (IOT) Using the NPK sensor with ESP8266, my team created a product which has its own website built from scratch. The product would be used by agriculture specialists to detect the nutrients percentage and use the fertilizer as recommended by the system. The values would also be stored in the database and viewable on the website. |
| Rapid detection of fake news (Python) 🡪 Detect fake news using TFIDF vectorization and using three classifiers (random forest, multi-layer perceptron, Logistic regression) to determine which one gives a better result.Classification using cifar-10 (python)🡪 Classify images converting them to vectors and normalising for easier processing. Use CNN model with several layers and classify images into respected classes. Evaluating using confusion matrix.face mask detection (python)🡪 classify images between masked/not-masked. Using CNN sequential model and simple probabilistic method to DETERMINE if the image contains a mask or not.Action recognition (python)🡪 Use of transfer learning Movinet on the UCF-101 dataset. movinet is a cnn model of 204 layers and computes video data. Evaluation done using confusion matrixOptimization of matrix multiplication for enhanced performance (C++)🡪 compute an (N) size of matrix and see its performance. Use of parallel programming (OpenMP, MPI, CUDA).zip code finder (Assembly)🡪 assembly language functions to build a simple zip code finder, connected to a file system.online voting system (PHP +Database)🡪 Build a website using php and connect it with a database preferred MySQL. Fetch and compute the candidates and write queries which update the table automatically.Projects Link🡪 [G\_Drive](https://drive.google.com/file/d/11AsCT05t1pVcXe7OqCzMe1foacDmoPwE/view?usp=sharing) |

# Skills

**Proficient**

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| * Python * Jupyter * Anaconda * Keras * Tensorflow * Pytorch * Matplotlib * Computer Vision * Seaborn   **Previous Experience**   |  |  | | --- | --- | | * C++ |  | | * Assembly * Linux * PHP |  | | * Machine learning * Data Analysis * Internet of Things (IoT) * BI * Tableau * SQL * English |

# Social service

* Volunteered at Pakistan Citizens Alliance, Lahore.
* Plantation and plastic disposal.
* Spreading awareness of women rights in the work environment