ISMAT SAIRA GILLANI

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|  | **EDUCATION** | |
|  | * **MASTER OF SCIENCE IN ARTIFICIAL INTELLIGENCE ROBOTICS ENGINEERING- 3.5/4 GPA** | **2021- DEC 2022** |
|  | **COLUMBUS STATE UNIVERSITY**   * **MERIT SCHOLARSHIP FOR GRADUATE STUDIES| PROJECT RANKED 1ST AMONG THE 10 BEST PROJECTS** | **GEORGIA- USA** |
|  | * **MASTER OF SCIENCE IN DATA SCIENCE – 3.4/4 GPA** | **2018 -2021** |
|  | NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES | KARACHI, PAKISTAN |

* **RESEARCH ASSOCIATE | TOP SCORER OF THE CLASS IN BUSINESS ANALYTICS |**
* **RELEVANT COURSES:**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| * Machine Learning | | * Deep Learning | | * Computer Vision | | * NLP | |
| * Business Analytics | | * Embedded Systems   **CAREER HI** | | * Autonomous Vehicles   **GHLIGHTS** | | * Probability and Statistics | |
| * Python | * Open CV | | • | | TensorFlow | | * SQL |
| * UiPath | * Power Query | | • | | Power BI/Tableau | | * GIT |
| * MATLAB | * Solid works | | • | | Statistical Analysis | | * Data visualization |
|  |  | | **PROJECTS** | |  | |  |

* Built a project with Deep Learning and AI that can detect, count, and save images of crops from drone footage.
* Automated guided vehicle, which follow a visual line embedded on the floor.
* Developed an object detection model by using YOLO. Detected Fanta and Coke bottles with 96% accuracy.
* Automated invoice extraction and processing by using UiPath. Reduced inaccuracies and errors by 23 %.
* Designed marketing strategies for grocery retailers by regression analysis and identified key attributes to increased conversion and traffic; resulted in a 25% sales lift.
* Implemented process automation, analyzed university hiring data to predict and visualize patterns for future hirings. Automated data processing functions and generated custom graphs and forms and hired more than 30 Students on campus-based jobs and saved approx. $100,000 per annum.
* Upgraded and Automated CRM. Analyzed customer data to predict the sentiments of the customers and helped the company

boost their revenue by 40 % and increased the customer’s lifetime by suggesting effective strategies.

* Automated the process of finding drug targets by analyzing millions of cell lines. Developed drug sensitivity prediction model for cancer cells and picked out drug targets with 90% accuracy. Made the predictions explainable by using SHAP. A research paper is also under publication.
* Analyzed credit history of customers and developed bank loan default model and increased business unit’s annual revenue by 5%

while reducing default rate.

* Automated onboarding of employee’s process and improved the HR procedures and operations which were running on older system and was having challenges like data breeches and human errors. Organization was able to cut the process time to 5 minutes per new employee by using process automation.
* Integrated and designed interactive dashboard for sales analytics and predicted estimated arrival time of orders. The interactive dashboard and predictive analytics helped the company increase their sales by 10 % and automate the process by 97% accuracy vs 80% previously when done manually.
* Created parts in SolidWorks for use in production that can be printed using 3D printers.

**CAREER HIGHLIGHTS**

**GRADUATE RESEARCH ASSISTANT-COMPUTER VISION- COLUMBUS STATE UNIVERSITY,GEORGIA, USA AUG. 2021 -PRESENT**

* Teaching Machine learning algorithms. Helping students in courses including Computer vision Statistics, Python, and MATLAB.
* Developed the process by using TensorFlow for multiple Object Detection.

**DATA ANALYST AT ODETTA.AI, WILMINGTON, DELAWARE, USA JULY 2020- AUG 2021**

* Created automation architecture and solution proposals.
* Proposed, evaluated, and implemented bots to automate repeatable processes by using UiPath.
* Designed insightful reporting for the improvement of business process.
* Created PDD (process definition document) and SDD (solution documentation) and provide training to client users.
* Performed data collection, cleaning, analysis and validation.
* Produced interactive Data Visualization using Power BI.

**DATA SPECIALIST, TGI TEXAS GENERAL -INSURANCE, Sugar Land , TX OCT 2018– JULY 2020**

* To review and execute insurance applications to ensure that all necessary information required for processing a policy is provided and complete. Created and utilized automated process to calculate the risk associated with a document and determine the best policies for a client. Responsible for reviewing claims, and to provide recommendations on payments to minimize losses.

**VOLUNTEER WORK:**

* Volunteering at [icode guru](https://icodeguru.weebly.com/) since 2020, partnered up with [Dr. Umar Rafi](https://www.linkedin.com/in/umar-rafi/) from Salesforce and [Dr Rashed Bhatti](https://www.linkedin.com/in/rzbhatti/) from IBM, conducted engaging and interactive sessions on coding , hackathons , personal development, and career planning.