

# Tarun

304 Tirellan Heights, Headford Road, Galway

+353851428223   

## OBJECTIVE

As a forward-thinking AI Engineer with a comprehensive background in full-stack development and a proven two-year track record in automation engineering for BFSI clients, I am seeking to leverage my expertise in RPA and deep understanding of artificial intelligence to drive innovation and efficiency in technology solutions. My goal is to contribute to an organization that values cutting-edge technology and continuous improvement, where I can further hone my skills and make a significant impact on business outcomes.

## EDUCATION

### Masters of Science in Computer Science (Artificial Intelligence) (Expected Result : 1.1)

*University of Galway*

2023-2024

### Bachelors of Technology I&CE (Result : 1.1)

*Amity School of Engineering and Technology*

2017-2021

## EXPERIENCE

### Full Stack Developer

Cloud Mobile

Jul 2023 - Present

*Remote*

- Spearheaded the development of a robust SaaS platform tailored for a high-profile telecom client, leveraging Python and FastAPI for optimal performance and scalability.
- Implemented innovative data caching techniques to optimize API response time by 75%, resulting in improved user experience and increased customer satisfaction.
- Provided ongoing maintenance and enhancement of the SaaS platform, responding to client feedback to iterate on features and functionality, resulting in a 30% increase in client retention.
- Architected a highly scalable microservices infrastructure that supported the telecom client's complex workflows and large volumes of data, achieving 99.9% uptime.

### Python Developer (RPA)

Tata Consultancy Services Limited

Nov 2021 - Jul 2023

*New Delhi, India*

- Collaborated with Application Engineers, used Python scripts to extract the data from internal application to prepare reports.
- Developed and integrated advanced Python-based algorithms to analyze and process complex datasets, resulting in a 25% increase in data-driven decision-making accuracy for the BFSI client.
- Standardized the UI framework which decreased the development time by 20%.
- Engineered and deployed sophisticated Python automation solutions that streamlined data handling processes, leading to a marked improvement in report generation accuracy and supporting critical decision-making for our BFSI clientele.

### Junior ML Engineer

Omdena

Sep 2021 - Dec 2021

*Remote*

- Orchestrated data cleansing operations, employing advanced preprocessing techniques to eliminate anomalies and enhance the quality of datasets for model training.
- Conducted comprehensive exploratory data analysis, providing critical insights that informed the team's data strategy and facilitated a deeper understanding of underlying patterns.
- Compiled and delivered detailed reports summarizing our findings, model performance metrics, and strategic recommendations, contributing to informed decision-making and project direction.

## SKILLS

**Programming Languages:** C, Java(*Standard*), Python(*Proficient*), SQL(*Expert*), MatLab, R

**Library:** Pandas, Matplotlib, Numpy, Selenium, Scikit Learn, NLTK, OpenCV

**Framework:** Django, Flask, FastAPI, PyTorch, Keras, ONNX

**Software:** VS Code, Jupyter Notebook, Git, Google Colab, Anaconda

## RESEARCH WORK

**Amity School of Engineering and Technology, New Delhi**

Sep 2019 - Aug 2021

- Co-authored and presented a research paper titled '**Arm Rehabilitation Assistive Device**' at the **RAMAN-2021 Conference**.
- Co-authored and presented a literature review titled '**A comprehensive study of pest bird repellent systems**' at the **MCCS-2021 conference**.

## PROJECTS

**Custom Filters using CV , Course Capstone Project**

Nov 2023

Designed and executed a college project featuring five custom filters, utilizing MediaPipe and OpenCV for real-time facial detection and graphics overlay, enhancing user interaction with creative visual elements. Leveraged the capabilities of MediaPipe and OpenCV to craft engaging filters that animate and adapt to users' facial movements, offering an immersive experience in digital image processing.

**Columbian Career Recommendation System , Omdena local chapter**

Sep 2021

Built a career recommendation model based on the ICFES dataset. Provided the insights on how the Colombian student population is distributed around the country and made career recommendations based on the various parameters like saber11 or saber pro scores.

**SpaceY - Winning Space Race , IBM Coursework**

Sep 2021

Evaluated 2 data sources to estimate the total cost for launches for a company Space Y, by predicting successful landings of the first stage of rocket launches by Space X and finding the best place to make launches as well.

**Home Automation, Hobby Project**

Sep 2019

Experimented with the ESP-32 to create a smart home solution that can control electricity based appliance through internet.

## CERTIFICATIONS

- **Specialization in Data Visualization with Tableau** from Coursera offered by **UC Davis**. Jul 2022
- **Specialization in Hands-on Machine Learning with Google Cloud Labs** from Coursera offered by **Google**. Jul 2022
- **Professional certificate in AI Engineering** from Coursera offered by **IBM**. Oct 2021
- **Professional certificate in Data Science** from Coursera offered by **IBM**. Sep 2021
- **Specialization in AWS Fundamentals** from Coursera offered by **AWS**. Aug 2021
- **Certification in Algorithms, Part I** offered by **Princeton University** from Coursera. Jun 2021

## REFEREES

References Available Upon Request