ROHAN THORAT

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SUMMARY

First-class MSc graduate in Artificial Intelligence with diverse skills in Data Science, AI, ML, Statistics, and Software development. Possess over **four** years of experience as a system engineer, thriving in fast-paced environments with tight deadlines. With dual proficiency in cutting-edge technical skills and real-world experience, I am driven to contribute to data-focused projects and deliver exceptional results.

TECHNICAL SKILLS

Python (NumPy, Pandas, matplotlib, Scikit-Learn, SciPy, OpenCV, TensorFlow, PyTorch), Computer Vision, Deep Learning, Machine Learning (Regression, Decision trees, Random Forests, Clustering, Classification), SQL, GitHub, MATLAB.

EDUCATION

Queen Mary University London

MSc in Artificial Intelligence (Computer Science) | Grade: Distinction   *September. 2023*

- Relevant coursework: Introduction to Computer Vision, Machine Learning, Artificial Intelligence, Applied Statistics, Cognitive Robotics, Advanced Robotics System, Deep Learning and Computer Vision, Ethics, Regulation and Law in Advanced Digital Information Processing and Decision Making.
Dissertation : Transfer Learning for Car Parking Detection using Single Shot Multibox Detector
- Conducted in-depth research to develop a robust customer- centric car parking detection system using the SSD object detection algorithm, employing **k-means clustering** to achieve a **20%** improvement in accuracy. Streamlined the state-of the art SSD algorithm to reduce computational costs. Prioritized environmental sustainability by minimizing parameter usage and energy consumption during training. [[Research Paper](#)]
Tools/Skills : Python, Deep Learning architectures, Data processing, transfer Learning, research writing.

Ramrao Adik Institute of Technology, Mumbai University

Bachelor of Electronics Engineering | CGPA: 7.8/10   *July. 2018*

- Relevant coursework: Object Oriented Programming, Structure Programming Approach, Communication Skills, Digital Image processing, Signal and Systems, Business Communication and Ethics, Digital Signal Processing and Processors.
- Dissertation : **Automatic Car Driving System Using Fuzzy Logic -** Engineered an autonomous driving system inspired by Tesla, utilizing **python** with fuzzy logic instead of conventional methods. Demonstrated expertise in sensor integration, showcasing the ability to transform sensory input into a functional prototype. Emphasized innovative thinking and technical skills in system design and logic implementation.
- Tools/Skills : Python, Raspberry Pi, Fuzzy logic, prototype building, sensor processing.

PROJECTS

- **Accelerating Color Extraction Algorithm using Graphics Processing Unit (GPU) -** Revamped color extraction algorithm by leveraging GPU acceleration, leading to a remarkable **30%** enhancement in performance when compared to CPU implementation. Demonstrated proficiency in **MATLAB**, algorithm optimization, GPU utilization, and a keen ability to deliver impactful solutions in a collaborative environment.
- **Generative Adversarial Networks (GAN) for Image Generation -** Implemented a Generative Adversarial Network to train on the MNIST dataset, resulting in significant improvements in image generation quality. Conducted hyperparameter tuning and architecture modifications to enhance GAN performance. Conducted rigorous testing and evaluation, showcasing strong problem-solving and optimization skills.
- **Image Classification with Deep Learning Models -** Utilized deep learning models (VGG16, ResNet50, and GoogLeNet) to perform accurate image classification on datasets such as MNIST and CIFAR10. Achieved

exceptional model performance, emphasizing strong analytical and experimental skills. Conducted fine-tuning of hyperparameters and optimized model architectures.

EXPERIENCE

System Engineer   *August 2018 - August 2022*
Tata Consultancy Services Ltd | Delhi, India

- Spearheaded the successful implementation of Microsoft Windows Azure Infrastructure as a Service, creating a robust cloud infrastructure for clients. This transformation streamlined operations, enhancing scalability and cost-efficiency.
- Identified and remediate vulnerabilities within the environment. This initiative resulted in a more secure and compliant infrastructure, fostering client trust and satisfaction.
- As a team lead, effectively managed and mentored a group of professionals, fostering a collaborative and productive work environment. Developed strong soft skills and communication abilities, providing exceptional service demonstrating strong Management and effective engagement with stakeholders.
- Tools: SCCM, Nexthink, Azure, VMware and ServiceNow.

Supermarket Assistant   *June 2023 - Present*
Waitrose & Partners | London, UK

- Developed strong organizational abilities, ensuring the efficient stocking and pricing of products.
- Operated cash registers and point-of-sale systems, showcasing adaptability in technology usage.
- Collaborated effectively with colleagues in a fast-paced digital environment, emphasizing teamwork and adaptability, contributing to overall workflow efficiency and demonstrated capabilities in optimizing tasks.

PUBLICATION/RESEARCH

- **Automatic Car Driving System Using Fuzzy Logic – IJRASET** 🔗

CONFERENCES & CERTIFICATIONS

- Volunteered at ICRA 2023.
- Attended AI summit in London 2023.
- Attended AI classroom series conducted by Microsoft, 2022.
- Python for Data Science and Machine learning Boot camp (Udemy Course), 2022.
- Attended workshop on Data science conducted by Edureka, 2021.
- Hands on trainings in MATLAB and Arduino, 2016.

LANGUAGES

- English : Fluent
- Marathi : Native
- Hindi: Fluent