

# ANSHUL RAJ

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Proven Data Scientist and Software Engineer with approximately 3 years of experience, where I excelled in optimizing machine learning pipelines and leading software deployments to significantly reduce processing times. Adept in Python, I combine advanced statistical analysis with strong problem-solving skills. Recognized for adaptability and a results-driven approach, I excel in product development and programming, consistently driving operational excellence and fostering innovation. My robust background in data science and commitment to leveraging cutting-edge technologies make me a valuable asset in delivering impactful and efficient solutions.

## EDUCATION

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**Boston University**, Boston, MA Jan 2026  
MS Computer Science

- Relevant Coursework: AI, Data Science with Python, Software Engineering

**VIT Chennai**, Chennai, India Jun 2022  
B. Tech CSE CGPA: 7.66/10.00

- Relevant Coursework: Database Management Systems, Statistics, DSA, Image Processing

## PROFESSIONAL EXPERIENCE

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**Smiths Detection**, Bangalore, India Oct 2023 - Aug 2024

*Data Scientist*

- Optimized ML pipelines by implementing advanced data preprocessing techniques and model tuning, reducing processing time by 50% and improving model accuracy
- Worked with NVIDIA Jetson devices to deploy machine learning models, optimizing them to run efficiently on edge devices for real-time threat detection in security systems
- Coordinated cross-functional scheduling across teams, cutting down project delays by 25% and maintaining consistent on-time deliveries within regulated environments to meet stringent EU standards
- Revised, modularized and updated legacy codebases to modern development standards, enhancing code readability, maintainability, scalability and minimizing operating costs by 30%
- Collaborated with and mentored two interns to create an internal application designed for transparent and automated handling of promotions, minimizing manual oversight by 40%
- Facilitated team collaboration in deploying new features, updates, and bug fixes

**Smiths Detection**, Bangalore, India Nov 2021 - Sep 2023

*Graduate Engineering Trainee*

- Automated repetitive tasks using scripting languages such as Python and Shell, cutting down time taken to test deployment by 20%
- Developed interactive GUI timer app using Flask and Angular, integrated with JIRA, decreasing sprint stand-up times by 15%

## PROJECTS

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Automated threat detection in XRAY images of baggage May 2022

- Leveraged AI techniques to identify threats from x-ray images of baggage, achieving 80% accuracy

Prediction and Analysis of IPL Data Apr 2020

- Analyzed the IPL data and predicted outcome using ML techniques with 73% accuracy

## CERTIFICATIONS

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Machine Learning: Case Study, University of Washington Jul 2020

- Completed case studies in ML, focusing on model selection and real-world application development

Data Science with Python, University of Michigan Jul 2020

- Devised Python scripts for data retrieval, processing, and visualization

## SKILLS

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- Technical: Python, JS, Shell Scripting, Data Science techniques, Product development, Problem Solving
- Personal: Communication, Flexibility, Leadership, Risk-taking, Time Management, Self-Motivated