

# Pritam Anand Mane

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## EDUCATION

**Sardar Patel Institute of Technology**–Mumbai

2017-2021

Bachelor of Technology in Electronics & Telecommunications

GPA: **9.71/10.00** (3<sup>rd</sup> rank in graduating class)

## TECHNICAL SKILLS

**Languages:** Python(OpenCV, Keras, Pandas), Java(reactive), C, R, Javascript, SQL    **Databases:** MySQL, MongoDB

**Tools & Frameworks:** Django, SpringBoot, Spring Webflux, Kafka, Postman, REST API, MVC Systems, Tensorflow, Terraform, Jenkins, Amazon Web Services (EC2, RDS, S3, Lambda, DynamoDB, Kinesis, EKS)

## RELEVANT COURSEWORK

Programming Methodologies & Data Structures(*DS & Algo*), OOP (*Algorithms in Java*), Statistical & Computational Lab (*R, Python*), ML & AI (*Python*), DBMS (*SQL*), Computer Networks, Realtime Operating System (*Assembly*), Microprocessor & Microcontroller (*Computer Architecture*), Engg. Math I&II (*CalculusI&II*), Applied Math I&II (*Linear Algebra, Discrete Math*), Random Signal Analysis (*Probability*)

## EMPLOYMENT EXPERIENCE

**JP Morgan Chase & Co** | Software Engineer (Payments Technology) | Mumbai

Aug 2022 - Present

- Developed asynchronous Java-based payment gateways to support local payments (LP) for Amazon & Netflix.
- Enabled business expansion by revising existing payment gateways to scale to hundreds of LPs with virtually zero downtime.
- Migrated legacy applications to AWS cloud-native solutions like EKS(Kubernetes), serverless Lambda, etc.

**ICICI Lombard** | Senior Developer | Mumbai

Aug 2021 – July 2022

- Automated AWS CI-CD pipelines using Jenkins for all applications.
- Built an LDAP authentication API for employee login and Implemented an MS Teams-based system for requests approval.

**ICICI Lombard** | Technology Intern | Mumbai

Feb 2021 - Aug 2021

- Built, Tested & Deployed a Django & React-based AWS Cloud Provisioning Portal to put requests for scheduling servers.
- Helped the organization reduce 25% cost of running servers and ensured a consolidated repository of server access and usage.

**e-Yantra, IIT Bombay-CSE Dept** | Summer Intern | Mumbai

May 2019 –July 2019

- Modelled, simulated, and built a 6 Degree of Freedom Stewart's Ball Balancing Platform under *Prof. Kavi Arya*.

## PROJECTS & RESEARCH PUBLICATIONS

**Dynamic Object Elimination based Indoor 3D Mapping** | Final Year Project | [IJRASET Journal 2021](#)

Jun 2020 – Nov 2020

- Used Kinect and ROS to create 3D Indoor maps eliminating moving objects (viz. people) with 87% detection accuracy.
- Implemented Traditional and Deep Learning based Object Detection algorithms to compare real-time computational complexity.

**A Wearable Belt for Fall Detection** | Research Project(8 citations) | [GUCON IEEE Conference 2020](#)

Jan 2020 – March 2020

- Deployed a “fall” detection algorithm from scratch on a 32-bit microcontroller to build an economical and effective product.
- Built a custom dataset of motion sensor values for body movements (walk, jog, run) to classify and detect a fall in 0.25 seconds.
- Implemented and tested multivariate time-series classification for body movements in real-time.

**Bipedal Balancing Bot** | e-Yantra Robotics Competition-2019

Dec 2019 – March 2020

- A Zigbee remote-controlled self-balancing bot modelled on an Inverted Pendulum-based LQR control algorithm for balancing.
- Deployed a customized scheduler in C to calculate the tilt angle of the bot and motor speed value for balancing action.

**Smart Parking System with Number Plate Detection** | Deloitte TechnoUtsav 3.0

March 2020 – Jun 2020

- Trained a custom Object Detection model using Transfer Learning and used DeepSORT for Number Plate Tracking.

**AntBot** | e-Yantra Robotics Competition-2018

Dec 2018 – March 2019

- An autonomous line-follower bot with Shortest Path Algorithm in a grid arena.

## EXTRACURRICULARS & VOLUNTEERING

**Fire and Safety Association India (FSAI)** | Student Volunteer

Aug 2019 – Sept 2019

- Led a team of 15 volunteers and audited over 60 local public centres in Mumbai during festivals for fire and safety norms.

**IEEE S.P.I.T. Student Chapter** | Committee Member

2018 – 2019

- Organized welcome events and coding workshops for freshmen and students from underrepresented core backgrounds.

**Beach Cleanup & Waste Segregation** | Student Volunteer-Mumbai

2018 – 2019

- Volunteered at the world's largest beach cleanup drive(Versova) & weekly waste segregation drives(at Aarey) under Afroz Shah

## AWARDS & CERTIFICATIONS

• **Programming, Data Structures & Algorithms Using Python**, MOOC by NPTEL-2021

Score: 84%

• **Semi-Finalists** at Deloitte TechnoUtsav 3.0 Hackathon (*top 200 among 3000 teams*)

June 2020

• **Top 10** at e-Yantra Robotics Competition-2019, IIT Bombay (*among 2000 teams*)

March 2020

• **6<sup>th</sup> National Rank** at e-Yantra Robotics Competition-2018, IIT Bombay (*among 2000 teams*)

March 2019

• **Japanese Language N5 level**, JLPT 2019

Score: 82nd percentile