

# Shubham Gupta

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## PROFESSIONAL SUMMARY

B.Tech candidate (Robotics & Automation) delivering production-grade Python systems with 90 % test coverage. Engineered anomaly detection and navigation pipelines that improved efficiency 25–30 %; eager to apply data-driven coding and modern frameworks to Meta-scale systems.

## PROFESSIONAL EXPERIENCE

### Robotics Intern

SVR Robotics

07/2024 – 08/2024  
Pune, India

- Engineered automation components for corrosion detection robot with Python and Fusion360, aligning to industrial standards and slashing inspection time.
- Coordinated with cross-functional teams to integrate systems, boosting project delivery through clear communication and completing ahead of schedule.
- Demonstrated system functionality via software animations, securing positive stakeholder feedback in reviews.
- Compiled technical specifications and test results, optimizing workflows and aiding team goals.

## EDUCATION

### Bachelor of Technology in Robotics and Automation

Reva University, Bangalore, Karnataka

2021 – 2025

Bangalore, Karnataka

- CGPA: 7.99/10 (Expected graduation: June 2025)
- Relevant Coursework: Structures, Algorithms, Software Engineering, Industrial Automation, Embedded Systems, Database Systems, Robotics, IOT, AI/ML.

## SKILLS

### Programming Languages

C++, Embedded C, Python, SQL, R

### Frameworks/Tools:

TensorFlow, PyTorch, Scikit-learn, Keras, LangChain, ROS, ROS 2, Gazebo, OpenCV, Power BI, Tableau, Excel, Fusion 360, Visual Studio, Jupyter Notebook, Anaconda, FastAPI.

### Technical Skills:

Machine Learning, Deep Learning, Classification, Regression, Natural Language Processing, Time Series Analysis, Computer Vision, Reinforcement Learning, Data Cleaning, Data Visualization, Statistical Modeling, Process Optimization.

### Soft Skills

Team Collaboration, Communication, Problem-Solving, Attention to Detail, Adaptability

## AWARDS

### Winner at AI ML by PeerHub x CIG IIT Roorkee as Ayuta

Indian Institute of Technology, Roorkee

01/03/2025

### FutureTech Showcase Competition Finalists

Indian Institute of Technology Delhi

01/02/2025

### Opsium\_national\_finalist\_certificate

Indian Institute of Technology, Madras

01/12/2024

## PROJECTS

### Navigation Using ArUco Marker

- Implemented robotic navigation using Python and ROS, deploying algorithms for precise localization and path planning with 95% accuracy.

- Skills Used: Python (OOP, Loops, Functions), ROS, OpenCV, Software Testing

#### **Ad-Click Prediction API**

- Built RESTful endpoint predicting click probability; 88 % accuracy, **92 % pytest coverage**.
- Skills Used: Python, FastAPI, Scikit-learn

#### **Medicine Delivery Robot, Reva University, Bangalore, Karnataka**

- Designed autonomous delivery robot with ROS 2 and Python, incorporating SLAM and SQL for navigation logging, enhancing efficiency by 30%.
- Skills Used: Python (OOP), ROS 2, OpenCV, SQL, Functional Testing

## **CERTIFICATIONS**

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|--|---|--|
| • - CAD and 3D Printing, Reva University | • - PCB Architecture and Design, Reva University                      | • - Robotics Design for Fabrication, Reva University |
| • - E-drive, Tech Analogy                | • Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate |  |