

Shubham Gupta

✉ shubhamg.engineer@gmail.com ☎ 7899268542 📍 Bangalore, Karnataka

🌐 [linkedin.com/in/shubham-gupta-8360a8305](https://www.linkedin.com/in/shubham-gupta-8360a8305) 🐙 github.com/shubhamg-engineer

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

07/2024 – 08/2024

SVR Robotics

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

2021 – 2025

Reva University, Bangalore, Karnataka

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

01/03/2025

Indian Institute of Technology, Roorkee

FutureTech Showcase Competition Finalists

01/02/2025

Indian Institute of Technology Delhi

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01/12/2024

Indian Institute of Technology, Madras

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 | |