

M SHUBHAM ACHARY

Full-Stack Developer • Machine Learning • Embedded Systems & IoT

+91 7064882092 • shubhamach777@gmail.com • github.com/shubhamachary56821 • [Portfolio](#) • Bhubaneswar, Odisha

SUMMARY

Computer Science undergraduate (B.Tech) with a Diploma in Electronics & Telecommunications — a rare combination of hardware-level understanding and software development skills. Proficient in Python, Java, full-stack web development (Flask, Django, Firebase), and machine learning (TensorFlow, Scikit-Learn, OpenCV). Built real-world projects spanning IoT robotics, gesture recognition, stock prediction, and music streaming. Seeking an internship where hands-on problem-solving skills can deliver immediate value.

TECHNICAL SKILLS

Languages	Python • Java • C/C++ • Embedded C • Bash • JavaScript • HTML/CSS
Web & Backend	Flask • Django • React (basics) • Google Firebase • REST APIs
ML & AI	TensorFlow • Scikit-Learn • OpenCV • Linear Regression • SVM • Decision Trees
Hardware / IoT	Raspberry Pi 4 • Embedded Systems • Optical Fiber • RTC • Arduino (basics)
Tools	Linux • Git/GitHub • VS Code • Maven

EXPERIENCE

Network Intern

Apr 2022 – Jun 2022

RTTC, BSNL

Bhubaneswar

- Gained hands-on exposure to optical fiber communication systems and telecom infrastructure
- Assisted in maintenance and servicing of network devices across active network nodes
- Studied real-world network architecture — experience that informs low-level systems thinking in software work

Junior Intern

ROBOCOUPLER, PVT LTD

- Gained hands-on exposure on building and training customized Dataset to train machine learning models.
- Worked on real dataset and made custom machine learning models on a local machine.
- Build prototype and production full stack python based AI Desktop application .

PROJECTS

Hand Gesture Control System | [View on GitHub](#)

Real-time computer vision system for controlling applications via hand gestures

- Built a real-time gesture recognition pipeline using OpenCV and TensorFlow for live webcam input
- Implemented hand landmark detection to map gestures to system control actions with low latency
- Demonstrates applied ML in computer vision — bridging hardware input and software response

Autonomous Robot — Raspberry Pi 4 | [View on GitHub](#)

Hardware robot programmed in Java on Raspberry Pi 4, outperforming Python-based alternatives

- Programmed robot locomotion and sensor logic in Java with Maven build system on RPi 4
- Achieved faster response times compared to equivalent Python implementations through JVM optimization
- Integrated hardware GPIO control with software logic — demonstrates full-stack embedded development

Stock Market Analysis & Prediction | [View on GitHub](#)

Web-based machine learning app for stock trend prediction with data preprocessing pipeline

- Built end-to-end ML pipeline: data ingestion, preprocessing, feature scaling, model training, and evaluation
- Implemented Logistic Regression model achieving measurable accuracy in trend classification
- Debugged prediction logic and improved data handling efficiency through iterative testing

CloudMusic — Spotify Clone | [View on GitHub](#)

Full-stack music streaming web app with authentication, playlists, and real-time Firebase backend

- Built dynamic UI with authentication, playlist management, and async data fetching in vanilla JavaScript
- Integrated Google Firebase for real-time database, storage, and user authentication
- Optimized performance through lazy loading and efficient Firebase query patterns

EDUCATION

B.Tech — Computer Science & Engineering

Jan 2025 – Present (Expected 2028)

Centurion University — School of Engineering Technology

Bhubaneswar

Diploma in Electronics & Telecommunications

2021 – 2024

KIIT Polytechnic

Bhubaneswar

Foundational hardware knowledge: circuit design, microcontrollers, optical fiber, network systems

TRAINING & COURSES

AI & Machine Learning — Udemy

2023

Comprehensive ML Course

Online

- Covered supervised learning algorithms: Linear Regression, Decision Trees, SVM, and ensemble methods
- Hands-on practice with data preprocessing, feature engineering, and model evaluation techniques