

# Ashutosh Patro

Berhampur, Ganjam, Odisha, 761008 • +91 7847810210 • patroashutosh652@gmail.com

## Objective

---

A 3<sup>rd</sup> Year B.tech student with expertise in full stack development, AI, ML, NLP and problem solving with a passion to create impactful and tech-driven innovations. Proficient in multiple programming languages and dedicated to staying abreast of emerging technologies for continuous professional growth and project success.

## Education

---

### NIST INSTITUTE OF SCIENCE AND TECHNOLOGY (AUTONOMOUS)

Berhampur, Odisha

Bachelors of Technology (Computer Science And Engineering)

Sep 2022 - July 2026

CGPA: 9.33

SGPA: 9.36

• Courses: Data Science, Data structures and algorithms, Knowledge Representation and Reasoning, Statistical Theory and Methods, Database management system, Learning Skills through Case Studies, Artificial Intelligence, Machine Learning, Natural Language Processing, Statistical Learning.

### KHALLIKOTE HIGHER SECONDARY SCHOOL

Intermediate (Science)

Board – Council Of Higher Secondary Education, Odisha

Percentage: 84%

• Specialised in Physics, Chemistry, and Maths with Biology

Berhampur, Odisha

March 2020 - July 2022

### JUDHISTHIR HIGH SCHOOL

10<sup>th</sup>

Board – Council Of Higher Secondary Education, Odisha

Percentage: 83%

Berhampur, Odisha

March 2020

## Skills

---

**PROGRAMMING LANGUAGES:** C, C++, Java, JavaScript, HTML, CSS

**FRAMEWORKS:** .Net, React, NodeJS, Tailwind

**DEVELOPMENT TOOLS:** AWS, Docker, Jenkins, Kubernetes

**DATABASE:** MongoDB, Oracle SQL

**DATA STRUCTURES AND ALGORITHMS:** Array, Linked List, Trees, Dynamic Programming

**MACHINE LEARNING:** KNN, Random Forest, Decision Tree, PyTorch

**MODELLING:** 3D modeling using Blender Software

**NLP:** NLTK, spaCy, TextBlob

**Soft Skills:** Time Management, Teamwork, Problem-solving

## Projects

---

**PERSONAL PORTFOLIO:** Developed a responsive personal portfolio website showcasing my skills, projects, and achievements. Integrated interactive features and a modern design to enhance user experience and highlight my professional expertise

**DRIVER DROWSINESS DETECTION SYSTEM:** Designed and implemented a driver drowsiness detection system using computer vision to monitor driver alertness. The system detects early signs of drowsiness, enhancing road safety by triggering alerts.

**FULL STACK PROJECT (MUSEMATE):** Developed Musemate, an all-in-one platform for museum enthusiasts, integrating museum search, ticket booking, and virtual tours. Enhanced user accessibility and convenience by centralizing resources for cultural exploration in one website.

**CI/CD PIPELINE FOR WEB APPLICATION:** Built a CI/CD pipeline using Jenkins and Docker to automate the testing, building, and deployment of a web application. Configured Git for version control and set up automated testing and deployment to AWS, reducing deployment time and minimizing errors.

**FRONTEND SOLUTION FOR OPD QUEUING MODELS:** Developed a prototype for OPD queuing models aimed at optimizing patient flow and reducing wait times in outpatient departments. The system streamlines the admission process, improving operational efficiency and patient experience.

## Courses & Certifications

---

**DATA STRUCTURES AND ALGORITHMS:** Completed a comprehensive course covering fundamental data structures (arrays, linked lists, trees, arraylist, stack, queue) and algorithms (sorting, searching, dynamic programming) in Java, with hands-on implementation.

**FULL STACK WEB DEVELOPMENT:** Completed a comprehensive certification program focusing on both front-end (HTML, CSS, JavaScript, React) and back-end (Node.js, Express, MongoDB) technologies, enabling the development of dynamic, responsive web applications.

**PYTHON WITH DATA SCIENCE FROM NPTEL:** Completed an in-depth course on Python programming and its application in data science, covering data analysis, visualization, machine learning algorithms, and statistical modeling and certified by IIT Madras.

**DATA ANALYTICS FROM COURSERA:** Mastered the fundamentals of data analytics, including data cleaning, exploratory data analysis (EDA), and advanced visualization techniques using Python and SQL to extract actionable insights from complex datasets.

**GOOGLE CLOUD STUDY JAM:** Completed the fundamentals of architecture modernization, cloud infrastructure hands on program organized by Google Developers Students Club (GDSC).

**GOOGLE CLOUD GENAI STUDY JAM:** Completed the fundamentals of genai using google cloud self paced hands on labs organized by Google Developers Students Club(GDSC).

**GOOGLE CLOUD ARCADE FACILITATOR PROGRAM:** completed about 30 skill badges and many levels to gain hands on experience on cloud technologies using google cloud platform.

**WEBINAR ON FUTURE OF EV BY EDUCARE TAIWAN:** Participated in a webinar on the 'Future of Electric Vehicles,' hosted by Educare Taiwan and gained insights into advancements, challenges, and opportunities in the EV industry.

## Achievements

---

**TOP ACADEMIC PERFORMER:** Consistently ranked among the top in batch based on academic performance and among the top 10 percent students in the batch.

**NATIONAL SCHOLARSHIP AWARD:** Received a prestigious national scholarship for achieving above 80 percent in 12<sup>th</sup> grade, demonstrating high academic performance and commitment.

**MERIT SCHOLARSHIP MODERN INDIAN LANGUAGE:** Received a scholarship for outstanding marks in MIL, demonstrating strong language proficiency.

## Interests

---

**READING AND WRITING:** Committed to personal development through reading on technology and science topics, and occasionally writing about new tech trends.