

# Ankit Raj

Bachelor of Technology (2021-2025)  
Kalinga Institute of Industrial Technology, Bhubaneswar

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## Education

### -Bachelor of Technology in Computer Science and Engineering

2021-2025

Kalinga Institute of Industrial Technology, Bhubaneswar

CGPA: 7.64

**Coursework:** Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management Systems, Software Engineering, Data Analytics, Machine Learning and Deep Learning

## Experience

### -Summer Intern – Data Science

JUN 2024 - Aug 2024

Celebal Technologies, Jaipur

- Developed and implemented machine learning models and algorithms using Python, enhancing predictive analytics and data-driven decision-making.
- Designed and executed data visualisation projects, leveraging tools and techniques to present complex data insights clearly and effectively.
- Conducted comprehensive statistical analyses, feature engineering, and clustering to optimise data processing and improve model accuracy.

### -Web Developer Intern

Aug 2023 - Nov 2023

Bharat Qarlson Software Technologies, Pune

- Developed and maintained responsive web applications using HTML, CSS, JavaScript, ReactJS, Bootstrap, and PHP, ensuring high-quality user experiences.
- Successfully delivered 5 client projects with 5-star ratings and 100% client satisfaction, demonstrating exceptional technical skills and client management.
- Collaborated with a team of 5 developers to design and implement innovative web solutions, contributing to project planning and execution.

## PERSONAL PROJECTS

### Custom BitTorrent

BitTorrent client with peer-to-peer sharing.

- Implemented a full BitTorrent client in C++, including decoding encoded data structures and parsing .torrent files.
- Engineered peer discovery, handshake protocols, and piece-wise downloading, ensuring efficient file retrieval across multiple peers.
- Designed and optimized file download process, incorporating hash validation for data integrity and error handling for seamless file assembly.

### Potato Disease Classification

CNN-based model

- Developed a deep learning model utilizing a robust CNN architecture, achieving high-precision disease classification.
- Curated and annotated a comprehensive dataset of diverse potato plant images, implementing a clear and reproducible training pipeline with data preprocessing and augmentation.
- Conducted detailed performance analysis using standard evaluation metrics, and deployed the trained model for real-time and batch inference on new potato plant images, maintaining 94% classification accuracy.

### ChoicePoint

Developed a full-stack Django Web App.

- Developed a web application using Django for voting on topics with real-time statistics display and irreversible voting functionality.
- Implemented user and admin authentication systems to ensure secure access, enhancing user experience and administration capabilities.
- Deployed the application on an AWS EC2 server with HTTP, ensuring reliable and scalable hosting for seamless user interactions.

## TECHNICAL SKILLS and Certificates/Courses

**Languages:** Python, C/C++, HTML+CSS, Java, SQL, JavaScript, C#

**ML/DL Libraries:** Pandas, NumPy, Seaborn, Matplotlib, OpenCV, Scikit-Learn, TensorFlow, Keras

**Web Framework:** Django, NodeJS, FastAPI, PHP, MongoDB, MySQL, Bootstrap, GitHub

**AWS:** EC2, S3, CloudFront, DynamoDB, IAM

**Certifications:** Python (HackerRank), SQL (HackerRank), Problem-Solving (HackerRank), AWS Academy Semester 1,

**Courses:** Data Science with Python (Simplilearn), C for Everyone (Coursera), SQL (Udemy)