

P. AJAY KUMAR

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LinkedIn

Github

Education

Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar

B.Tech in Computer Science and Communication Engineering

CGPA: 8.43

July 2023 – May 2027

Relevant Coursework: Data Structures and Algorithms, Machine Learning, Database Management Systems, Operating Systems, Computer Networks

Internship

Data Science Master Virtual Internship — AICTE EduSkills (Altair)

Jul 2025 – Sep 2025

- Performed data preprocessing, exploratory data analysis, and feature engineering on real-world datasets.
- Built and evaluated machine learning models using **Scikit-learn**, focusing on model performance using accuracy and confusion matrices.
- Gained hands-on experience in end-to-end ML workflows from data cleaning to model evaluation.

Projects

Mental Health Prediction using DASS-21

Python, Scikit-learn — GitHub

- Built end-to-end ML pipelines to classify **Depression, Anxiety, and Stress** levels using DASS-21 questionnaire data.
- Implemented data preprocessing, score computation, and multi-class classification using **Scikit-learn**.
- Evaluated model performance and optimized the prediction workflow for backend integration.

Employee Turnover Prediction

Python, Machine Learning — GitHub

- Built an end-to-end ML pipeline to predict employee attrition using HR data.
- Applied feature engineering, **SMOTE**, and **Random Forest** for imbalanced classification.
- Achieved ~ 80% **accuracy** with improved recall for attrition cases.

Car Price Prediction System

Flask, Machine Learning — GitHub

- Developed an end-to-end ML pipeline to predict used car prices using Random Forest regression.
- Applied feature engineering, One-Hot Encoding, and model evaluation using R^2 and MAE.
- Built a Flask-based web application to provide real-time car price predictions.

Problem Solving

Solved **300+ Data Structures and Algorithms** problems on LeetCode covering arrays, strings, hashing, recursion, trees, and basic graphs.

Technical Skills

Languages: Python, C++, C, Java, SQL

ML Tools: Scikit-learn, Pandas, NumPy, Matplotlib

Frameworks: FastAPI, Flask

Tools: Git, GitHub, Jupyter Notebook, MySQL, Tableau

OS: Linux

CERTIFICATIONS

- Problem Solving (Intermediate) – HackerRank
- Data Structures in C++ – Coding Ninjas
- Data Science with AI – Internshala
- Software Engineer Intern – HackerRank