

Aniket Kumar

[Linkedin](#) || [Github](#) || 21052307@kiit.ac.in || k_aniket19@icloud.com || [leetcode](#) || 9668883344 || [aniket-web-portfolio.vercel.app](#)

Skills & Interests

- **SoftSkills** : Empathy, Oral and written communication, Teamwork and collaboration, Critical thinking.
- **Programming Languages**: [Python](#), R, Java, C++.
- **Software Dev Tools**: ApacheSpark, Mage.ai, Docker, Git and Github, FastAPI, REST API, Flask/Django, Node.js, NextJS, Shad-CN, TailwindCSS, Bootstrap5, ExpressJS, React, Vercel.
- **Machine Learning and Data Science** : TensorFlow, OpenCV, Scrapy, NLTK, Seaborn, SciPy, Matplotlib, Numpy, Scikit-learn
- **Cloud Technology**: [Google Cloud Platform](#), [Amazon Web Services](#), Azure.

Projects and Hands-on Experiences

Deadline-Detector {3 months}

- A **user-centric application** to address the common issue of missed deadlines among students.
- Implemented an **OCR-powered pipeline** using **Nanonets** to scan uploaded PDFs, extract deadline dates and times, and set automated reminders.
- This solution effectively aids users in timely form submissions and deadline adherence, **enhancing their organizational efficiency**.

My-Web-Profile([link](#)) {3 months}

- A web application with the ability to store user data and having implemented on **MERN stack**.
- Frontend, created on **React framework** showcasing different features and knowledge of **HTML, CSS and JS**
- Backend, created a server side rendering with implementing to store contacts on Database using **JS**
- Finally deploying the web/mobile application with **Vercel**

Trip-Cost-Estimator(GCP) {3 months}

- Managed and processed over **10 GB** of raw data stored in **Google Cloud Storage**.
- The Python scripts executed on **Google Compute Engine** improved data cleaning efficiency by 30%.
- The use of **Data Flow** for process automation reduced the data pipeline creation time by 40%.
- The transformed data loaded into **BigQuery** enabled efficient querying, reducing query times by 50%.
- The insights visualized through **LookerStudio** dashboards and interactive reports improved decision-making speed by 20%.

Medicine-Recommendations-System {6 months}

- Handling and preprocessing medical data to ensure it's ready for analysis and model training.
- Implementing algorithms that analyze patient data to predict diseases and recommend medications.
- Using **Flask** to manage the server-side operations, including data handling and API creation.
- Built a user-friendly interface using **HTML, CSS, and Bootstrap**, allowing healthcare professionals to input patient data and receive recommendations.

Flower Disease Imagery Visualization(Conference Paper-IEEE standard) {6+ months}

- The project tackled the challenge of early and accurate diagnosis through computer vision on a dataset of **10,000+ flower images** and augmenting each one on **Roboflow**
- Implemented various **YOLO algorithms** to create models, improving disease detection accuracy.

- The project paper provided a comparative study about all the YOLO v5 and v8 models (nano and small) as well as the latest YOLO v9 and Gelan model, contributing to the field'.

Social Media Brand Monitoring with Sentiment Analysis (GCP) {on going}

- Handled real-time analysis of over *10,000 social media data streams per day* using **Cloud Pub/Sub**.
- The efficient handling of data by **Cloud Storage** and Data Flow resulted in a 35% reduction in data processing time.
- The pre-trained models from **Vertex AI** analyzed sentiment with an *accuracy of 85%*.
- **BigQuery** stored data and **Looker** visualized trends, *improving brand perception and understanding by 30%*.

Education

Kalinga Institute of Industrial Technology, Bhubaneswar
B.Tech in Computer Science and Engineering(CGPA - 7.68)

2021 - Present