Aniket Kumar

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Skills & Interests

- ***SoftSkills :*** Empathy, Oral and written communication, Teamwork and collaboration, Critical thinking.
- ***Programming Languages:*** Python(netacad-PCAP), Java, C++.
- ***Software Tools:*** ApacheSpark, Mage.ai, Docker, Git, FastAPI, REST API.
- ***Machine Learning and Data Science*** : TensorFlow, OpenCV, Scrapy, NLTK, Seaborn, SciPy, Matplotlib, Numpy, Scikit-learn
- ***Cloud Computing*** **:** Google Cloud Platform, Amazon Web Services, Azure.
- ***Networking Skills (from NetAcad)*** **:** CCNAv7 (ITN, SREW , ENSA) and CyberSecurity(Introduction to Cybersecurity, Cybersecurity Essentials).

Projects and Hands-on Experiences

Deadline Detector

- *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.***

Trip Cost Estimator(AWS)

- Managed and processed over *10 GB* of raw data stored in **S3 buckets.**
- The Python scripts executed on **EC2 instances** *improved data cleaning efficiency by 30%.*
- The use of **AWS Glue** for process automation *reduced the data pipeline creation time by 40%*.
- The transformed data loaded into **Redshift** enabled efficient querying, *reducing query times by 50%*.
- The insights visualized through **QuickSight** dashboards and interactive reports *improved decision-making speed by 20%*.

Social Media Brand Monitoring with Sentiment Analysis (GCP)

- 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%.*

Flower Disease Imagery Visualization(Conference Paper-IEEE standard)

- 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'.

Education

Kalinga Institute of Industrial Technology, Bhubaneswar
B.Tech in Computer Science and Engineering*(CGPA - 7.68)* 2021 - Present