

SANATAN KAFLE

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SUMMARY

I am a Computer Engineer with a strong interest in Data Science, Machine Learning, and AI. I enjoy analyzing data, experimenting with models, and understanding their impact. I have experience developing end-to-end machine learning solutions, integrating backend APIs, and working with LLMs. My passion lies in leveraging AI to solve real-world problems.

WORK EXPERIENCE

Machine Learning Engineer

17th Sep 2024 - Present

Shrig Solutions

- Worked with cloud services AWS to deploy machine learning solutions.
- Built backend APIs using FastAPI for integration with Machine Learning models.
- Worked with AR technologies. Implemented Lidar Based calculations for 3D measurement
- Creating Data Pipelines, training and testing pipelines for machine learning workflow Streamlining
- Building edge devices models to integrate in mobile devices.
- Projects like; Video inpainting, Duplicate Image Detection, Object Detection, Segmentation, Classification, Depth estimation, Key points detection, 3D length estimation

Machine Learning Engineer Junior

7th Jun 2024 – 16th Sep 2024

Shrig Solutions

- Trained on Machine Learning concepts
- Developed and trained models related to Computer Vision like object detection, Pose estimation, Segmentation Using YOLO and monocular depth estimation
- Automating the process of keypoint annotation in CVAT.

PROJECTS

Used Mobile Price Prediction using Regression, Academic

Nov 2022 – Mar 2023

- Predicted resale price of mobile phones based on age, brand, and features.
- Scraped and cleaned pricing data using BeautifulSoup.
- Used Random Forest Regression for accurate predictions.
- Tech Stack: Python, Django, Git, Scikit-learn, Pandas, BeautifulSoup.

Gen AI-based Notes and Question Generation, Academic

May 2023 - Mar 2024

- Fine-tuned T5-base Transformer for question generation, enhancing contextual accuracy.
- Implemented notes summarization using TF-IDF and TextRank for key topic extraction.
- Tech Stack: Python, Django, Git, Scikit-learn, Pandas, T5-Transformer

EDUCATION

Bachelor of Computer Engineering

Institute of Engineering, Pulchowk Campus (Nov 2019 – Apr 2024)

- Completed coursework in Object-Oriented Programming, Databases, Data Structures, Artificial Intelligence, and Software Engineering.
- Chose Applied Data Science as an elective to deepen expertise in data analysis and machine learning.
- Actively contributed to event organization, including Locus, a premier student-led tech event.

High School

St.Xaviers College, Maitighar

SKILLS

- **Data Science/ Machine Learning:** Sklearn . TensorFlow . Pandas . Matplotlib . Seaborn . Numpy . Ultralytics
 - **MLOps:** Docker . Mlflow . ClearML
 - **Backend:** FastAPI . Django . Flask
 - **Database:** MongoDB . MySQL
 - **Cloud:** AWS (Ec2 . S3 . Sagemaker . Lambda . Glue . ECS)
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COURSES AND CERTIFICATIONS

- Machine Learning by Andrew Ng (Coursera)
- Deep Learning for LLMs & Generative AI (DeepLearning.AI)
- Programming & AI – Samsung Innovation Campus (Completed two specialized courses)
- Active Kaggle participant, solving real-world data science challenges
- Continuously learning through various MOOCs and online platforms