Nabin Oli

k Kaggle | In LinkedIn | ♀ Github | ■ nabinoli2004@gmail.com | ♪ 9848185797 |

Aspiring AI Researcher with a solid foundation in Python and experience in frameworks such as Django, Flask, and FastAPI. Skilled in API development and database management, seeking a Research internship.

Experience

Center for AI Research Nepal

Apr 2023 - Nov 2024

Research Intern (Contract Based)

Remote

- Built the Heritage Graph platform using Django Rest Framework, DKAN-Drupal, and LinkML, enabling Al-driven insights in cultural heritage research using Knowledge Graphs, Researched and reuse of ontology for NCHLOD
- Authored a Literature Review, Paper for NCHLOD project and co-wrote a Responsible Al Whitepaper under Dr. Tek Raj Chhetri and Dr. Semih Yamusak.

Datacamp X SSRC Mar 2023 - Mar 2024

Data Fellow and Community Moderator

Hybrid

- Gained access to and completed a diverse range of DataCamp courses, enhancing expertise in data science, analytics, and visualization techniques.
- Successfully organized two bi-annual meetups for the Data Fellow community, fostering collaboration, knowledge sharing, and peer learning among members.

Education

Sunway College Kathmandu

2023 - May 2027(Expected)

BSc (Hons.) Data Science (Consistently Maintained First-Class Honours)

Kathmandu, Maitidevi

• Relevant Coursework: Computer Programming with Python, OOP in Java, Database and Web Application Development, Data Structures and Algorithms (Python), Prob & Stat, Linear Algebra, Data Visualization with R

Capital College and Research Center (CCRC)

2020-2022

High School, Class 12 Biology and Mathematics)

Kathmandu, Koteshwor

• Grade: 3.1 GPA

Projects

Heritage Graph: Nepal's Cultural Heritage Platform | React, Django, LinkML, Oxiograph, KGs | [GitHub]

- Developed a full-stack Platform for digitizing the Cultural heritages for NCHLOD project
- Researched and Reused the CIDOC-CRM ontology for KGs creation
- Created REST-APIs using the Django Rest framework
- Used Supabase for Authentication and Deploying the database

Realtime Multiplayer Chess Platform | Next.js, Django Rest Framework, Flask, Redis | [GitHub]

- Developed a full-stack, real-time multiplayer chess platform with WebSockets (FastAPI), Redis, and JWT for authentication.
- Built a custom chessboard UI using HTML, CSS, and JavaScript, integrated with robust chess logic.
- Managed API endpoints and database operations using Django Rest Framework (DRF).
- Used **Redis** for game state caching and WebSocket synchronization.

Kalimati Project | Python, Selenium, KaggleAPI, GitHub Workflows | [REST API GitHub Link] & [Dashboard GitHub Link]

- Developed REST APIs for efficient data communication and integration.
- Built a web scraper using Selenium to automate data collection from Kalimati markets.
- Designed an interactive dashboard using Python Dash for data visualization.
- · Performed data cleaning and preprocessing using Pandas for analysis.
- Implemented a complete data pipeline, from raw data to Kaggle datasets.

Python Package: pydplyr | Python, Pandas | [GitHub Link]

- Deployed version 0.1 Python package on PyPI with dplyr-like syntax for easy data cleaning allowing the users to download it with pip package manager.
- Integrated Pandas for extended functionality, with future features planned.
- Completed and published documentation.
- Performed thorough testing to ensure stability and functionality.

Kaggle Datasets | [Kaggle Link].

- Kalimati Fruits and Vegetable Dataset updated daily.
- · Animal Datasets Yolo Format.
- Members of Parliament Full Dataset Nepal.

Wild Watch | Yolo, Flask, FastAPI, Django, Bootstrap | [Github Link]

- Developed a wildlife detection system using YOLOv8 for real-time animal identification.
- · Built with Flask for backend processing and React for frontend display.
- Won 3rd position as a team with this project
- Deployed system with camera setup and API for animal detection alerts.

Data Bank Nepal | DKAN | [Github Link]

- Developed the Data Bank Nepal WebApp using the DKAN Open Data sharing open-source solution for building data repositories.
- Developed and deployed the pydplyr Python package (pip install pydplyr), which mimics the dplyr package from R for simplified data cleaning and manipulation.
- Developed and deployed interactive dashboards for Kalimati Fruits and Vegetables to visualize pricing trends.

Flight Management System Using OOP in Java | Java OOP, JUnit Testing, JavaDocs | [GitHub Link]

- Scored highest marks in class for showcasing the use of software engineering principles and writing extremely modular code with well written comments and documentation.
- Developed a Flight Booking System in Java using OOP principles where customers to book flights and admins to manage bookings.
- Created an intuitive and user-friendly GUI with Java Swing, integrating dynamic form inputs and error handling.
- Documented the project with detailed JavaDocs and ensured code quality through rigorous JUnit testing.

Awards, Certifications, and Recognitions

Data Fellowship - 2023: Awarded a prestigious full-year scholarship to the DataCamp platform, enabling access to state-of-the-art learning resources in data science and analytics. [LinkedIn post Link]

Associate Data Scientist Certification: Successfully certified under the DataCamp Data Fellowship program, showcasing proficiency in data analysis, machine learning, and visualization techniques. [Certificate]

Kaggle Datasets Ranking: Secured a **global rank of 946 out of 15,470** in Kaggle's dataset rankings, earning the esteemed title of **Kaggle Dataset Expert** for contributions to the data science community. [**Profile**]

DataCrunch Hackathon 2024: Won **3rd place** in this prestigious nationwide competition organized by Code for Nepal, demonstrating exceptional teamwork and innovative problem-solving abilities. [**Details**]

Pearson Test of English (PTE): Achieved an impressive **overall score of 75 out of 90**, reflecting high proficiency in English language skills across speaking, listening, reading, and writing. [**Available on request**]

Technical Skills

Programming Languages: Python

Data Manipulation: NumPy, Pandas, dplyr **Data Visualization:** Matplotlib, Seaborn, ggplot

Mathematics: Linear Algebra, Probability, Calculus, Statistics

Web Development: Basic familiarity with frontend development in JavaScript ,React and Next.js

Databases: SQL, MySQL, MongoDB

Backend Development: FastAPI, Flask, Django, Django Rest Framework

Machine Learning: Scikit-Learn, FastAl

Version Control: Git, GitHub

References

Dr. Tek Raj Chhetri: Postdoctoral Associate, McGovern Institute for Brain Research, MIT : tekraj@mit.edu **Rajan Adhikari**: Solution Architect and Senior Lecturer at Sunway College: rajan.sunway@gmail.com

Kushal Regmi: Director, Sunway College: khushal@sunway.edu.np