Utsav Acharya

Machine Learning Fresher

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Portfolio | Linkedin | Github

Education

2023 – present
Kathmandu, Nepal

Bachelors in Computer Engineering
Pulchowk Engineering Campus

2021 – 2023
Kathmandu, Nepal

High School
Capital College and Research Centre
GPA: 3.91 + 3.73

Skills

Python | Statistics | SQL | Flask | NumPy | Pandas | Matplotlib | Seaborn | Machine Learning
Scikit Learn | Deep Learning | Keras | Tensorflow | OpenCV | Spacy | Git | Jupyter Notebook

Professional Experience

03/2022 – present

Co-Founder and Secretary
Together We Learn (TWL)
- Built an organization of **500+ members** and led them
- Performed **Data Analysis** tasks in **Excel**, ensuring accuracy and completeness of data.
- Conducted **5+ webinars** on programming-related topics, sharing knowledge and insights with a broad audience.
- Wrote **10+ newsletters** focused on **data science** and **programming** in general, providing valuable information and updates to **200+ subscribers**.
- Introduced programming and machine learning to curious students by **visiting schools** and **demonstrating** the incredible projects that can be created using **machine learning**.
- Consulted **data science-related** problems with other startups and non-profit organizations.

11/2022 – present

Community Builder
Data Research Council For Students
- Mentored **200+ students** in **intermediate Python**, providing guidance and support to help them improve their skills.
- Developed a strategy for **community building and engagement**, including outreach, content creation, and networking.
- Managed **GitHub** repositories, **social media** accounts, and **Discord** servers, ensuring that these platforms were up-to-date and effectively engaged with our community.
- Contributed to various **team projects**, collaborating with colleagues to achieve shared goals and deliver quality outcomes.

Projects

Cricketer Image Classification
- Performed Data Acquisition with **Beautiful Soup** and **Selenium**.
- Used **OpenCV** and **Pywavelets** for preprocessing and feature engineering.
- Handled imbalanced data with **SMOTE**.
- Used **GridSeachCV** for finding the best model and hyperparameter.
- Deployed the model with **Flask.**

Sentiment Analysis
- Used **Spacy** for preprocessing and feature engineering.
- Used **Random Forest Classifier** for model training.
- Deployed the model with **Gradio**.
- Real-time emotion detection with **90% accuracy**.

Tomato Disease Classifcation
- Used **Keras** and **Tensorflow** for preprocessing and feature engineering and **Neural Networks** for model training.
- Deployed the model with **Streamlit**.
- Real-time disease classification with **98% accuracy**.

Certificates

- Data,Data Everywhere by Google
- Data Science in Python by University of Michigan
- Data Science Specialization by IBM Skills Network
- Deep Learning Specialization by Deep Learning.AI
- ML Specialization by Deep Learning.AI
- Introduction to Backend Developement by Meta

Awards

2022 **National IT Olympiad Silver Medalist**
STEM, Nepal

2021 **National Physics-Mathematics Olympiad Bronze Medalist**
SOMES Nepal

2018 **District Mathematics Olympiad Winner**
HISSAN, Kaski