Tara Prasad Pandey

Machine Learning Engineer

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Profile :

Enthusiastic and ambitious Machine Learning Intern with a solid understanding of machine learning principles and methodologies. Passionate about data analysis and driven to solve challenging problems, I am dedicated to making a positive impact through innovative projects. Throughout my academic studies and practical engagements, I have developed strong programming skills in Python and gained hands-on experience with popular machine learning frameworks like TensorFlow and scikit-learn. My objective is to continually broaden my knowledge and expertise in machine learning, while actively contributing to the development of efficient and effective solutions for complex problems.

SKILLS :

- Machine Learning Algorithms
- Data Preprocessing
- Programming Language
- Version Control
- Deep Learning
- Model Evaluation and Validation
- Machine Learning Frameworks
- Problem Solving

TOOLS & FRAMEWORKS :

- Anoconda
- Pandas
- Numpy
- Git
- Matplotlib
- Jupyter Notebook
- Scikit-Learn
- Google Colab
- Tensorflow
- Notion

Experience:

Machine Learning Associate
Binary Logic Pvt.Ltd
2023 Jun – 2023 sept| Kathmandu, Nepal

Responsibilities:

1. Data Preparation
   - Assist in cleaning and preprocessing diverse datasets for machine learning applications.
   - Learn to identify and address data quality issues.
2. Model Implementation
   - Collaborate with the team to implement machine learning models under supervision.
   - Contribute to coding and programming tasks associated with model development.
3. Documentation:
   - Document code and processes to maintain a clear and organized repository.
   - Create detailed documentation of experiments and results.
4. Model Evaluation:
   - Support the evaluation of machine learning models using established metrics.
   - Learn to analyze and interpret model performance.
5. Collaboration:
   - Work closely with senior team members to understand project requirements and contribute to problem-solving discussions.
   - Participate in team meetings and knowledge-sharing sessions.
6. Continuous Learning:
   - Stay updated on the latest trends and advancements in machine learning.
   - Engage in ongoing learning activities and training to enhance skills.

Machine Learning Intern Feb 2023– Apr 2023 | Kathmandu, Nepal

Smart Online Solution pvt.ltd

Responsibilities:

1. Data Collection and Preprocessing:
   - Collaborate with cross-functional teams to gather and curate relevant datasets for machine learning projects.
   - Implement data preprocessing techniques to clean, format, and prepare data for analysis and model training.
2. Model Development and Training:
   - Assist in the development and implementation of machine learning models under the guidance of senior data scientists and engineers.
   - Train, evaluate, and fine-tune models using state-of-the-art algorithms and frameworks.
3. Feature Engineering:
   - Contribute to the identification and extraction of meaningful features from raw data, enhancing the performance of machine learning models.
4. Validation and Testing**:**
   - Conduct thorough validation and testing of machine learning models to ensure robustness, accuracy, and generalization to real-world scenarios.
5. Documentation**:**
   - Maintain comprehensive and clear documentation of the machine learning development process, including data sources, methodologies, and model performance metrics.
6. Collaboration:
   - Work closely with cross-functional teams, including data scientists, software engineers, and domain experts, to integrate machine learning solutions into our products and systems.
7. Stay Current with Industry Trends:
   - Stay abreast of the latest developments in machine learning and artificial intelligence, and actively contribute ideas and insights to the team.
8. Code Review and Optimization:
   - Participate in code reviews to ensure code quality, adherence to best practices, and identify opportunities for optimization.

IT Intern 2021 May– 2021 July | Butwal, Nepal

Butwal Submetropolition

Responsibilities:

- During my internship at Butwal Sub metropolitan, I played a critical role in centralizing the organization's computer systems.
- I worked closely with other members of the IT team to ensure that the data was accurate and consistent across all systems
- Database was properly configured to meet the organization's needs.
- I was responsible for collecting data from various departments and consolidating it into a centralized system.

EDUCATION :

Bachelor in computer information system 2017 – 2022 | Butwal, Nepal

Pokhara University (Crimson College Of Technology)

Throughout the program, gained a solid foundation in computer science principles, including programming, database management, networking, and system analysis. They also explore business topics such as management, accounting, finance, and project management, enabling them to effectively bridge the gap between technology and business needs.

PROJECTS :

Classification Project :

- This project focuses on the classification using Deep learning. The goal is to build a model that can classify and predict accurately .
- A convolutional neural network (CNN) is the chosen model for this classification task. CNNs are widely employed in image classification tasks to construct a fully connected network

Outcomes:

- Accurate Predictions: Diverse range of machine learning projects has yielded impactful outcomes, revolutionizing sentiment classification, COVID-19 detection, image recognition, and text analysis. Leveraging advanced algorithms and cutting-edge techniques

Machine Learning Projects :

- Within this repository, you will find a collection of code and resources pertaining to machine learning and data analysis. It encompasses a variety of algorithmic examples and techniques commonly utilized in the field.
- Additionally, the repository provides datasets that can be employed for experimentation and testing purposes
- The code is written in python programming language and covers topics such as regression, classification etc.

Outcomes:

- Accurate Predictions: Our models consistently achieve high prediction accuracy, enabling accurate assessments of horse survival rates, sales forecasting, machine failure detection, car purchase classification, credit card fraud detection, and crab age prediction. These accurate predictions empower decision-makers to make informed choices and take proactive measures body text

Data Analysis:

- Data analysis is the process of inspecting, cleaning, transforming, and modeling data with the goal of discovering useful information, drawing conclusions and supporting decision-making. It involves a range of techniques and methods that enable organizations to transform raw data into meaningful insights.