

Ankit Pokhrel

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AI & ML Enthusiast

Computer Engineering undergraduate with expertise in **AI, Machine Learning**, and modern **Web Technologies**. Experienced in building real-world **web** and **ML-based applications**, developing **scalable** and **efficient** solutions.

Technical Skills

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|-------------------|---|
| Languages | : Python, JavaScript, C, C++, HTML, CSS |
| Frameworks | : React.js, Angular, Express, Node.js, Flask |
| Libraries | : TensorFlow, Keras, PyTorch, Pandas, NumPy, Redux, React Router, Tailwind CSS |
| Databases | : MongoDB, Firebase Firestore |
| Dev Tools | : Visual Studio Code, Git, GitHub, Docker, ngrok, Postman, Jupyter Notebook, Figma, Streamlit |

Experience

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|---|-----------------------|
| Secretary, IT CLUB Pulchowk <i>Lalitpur, Nepal</i> | June 2025 – Present |
| <ul style="list-style-type: none">Coordinated tech events and workshops for students.Developed Python scripts to automate communications, improving efficiency.Oversaw IT Club website development and maintenance. | |
| Fellow, Seeds for Future <i>Nepal</i> | June 2025 – July 2025 |
| <ul style="list-style-type: none">Participated in workshops on AI, 5G, Cloud Computing, and digital infrastructure.Gained hands-on experience with cloud services and AI applications. | |

Education

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| Bachelors in Computer Engineering <i>IOE, Pulchowk Campus</i> | April 2023 – Present <i>Lalitpur, Nepal</i> |
| +2 Science <i>Gorkha International Public Secondary School</i> | 2020 – 2022 <i>Dang, Nepal</i> |

Projects

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|---|--|-----------------------------|
| Transformer Architecture Implementation | <i>Python, PyTorch, Transformers, NLP</i> | Source Code |
| <ul style="list-style-type: none">Developed a Transformer model from scratch using PyTorch to perform sequence-to-sequence NLP tasks.Implemented key components including multi-head attention, positional encoding, and feed-forward layers. | | |
| PDF Chatbot | <i>Gemini API, RAG, Python</i> | Source Code |
| <ul style="list-style-type: none">Developed a chatbot leveraging Gemini API and RAG to extract insights from PDFs with 92% accuracy.Optimized NLP pipeline, reducing response time by 40%. | | |
| Infant Cry Detection | <i>Python, TensorFlow, CNN, Audio Processing</i> | Source Code |
| <ul style="list-style-type: none">Designed a ANN-based model to classify infant cries using MFCC features and audio preprocessing techniques.Achieved high accuracy in distinguishing cry types such as hunger, pain, and discomfort. | | |

Certifications

- [Machine Learning – Coursera](#)
- [Meta FrontEnd Development – Coursera](#)
- [Coding and Programming with Python – Samsung Innovation College](#)