Basab Jha

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EDUCATION

Tribhuwan University   *Kathmandu, NP*
Bachleors of Science in Computer Science And Information Technology   Feb 2023 - Present

Relevant Courseworks: Data Structutres and Algorithms, Python, Database Management Systems, Discrete Mathematics, Computer Architecture, Artificial Intelligence, theory of Computation

Languages: Python, Javascript, C, Rust, Julia
Database: Postgres, MongoDB
Tools: git, Github, Gitlab
Additional: Supabase, Firebase, Linux(Manjaro/Arch/Ubuntu/CentOS)

Web: Next.js, Django, React, Vue.js, Node.js, Express
Machine Learning: Tensorflow, Scikit-learn, Pandas, Keras

EXPERIENCE

KRUTRIM   Remote
Research/ML associate   Jun 2024 – Aug. 2024
- Focused on data preprocessing, feature extraction, and model training using Python and TensorFlow.
- Conducted extensive data analysis to identify patterns and trends in large datasets, utilizing tools such as Pandas, NumPy, and Matplotlib
- Worked closely with senior researchers and data scientists, contributing to team meetings and presenting findings

🔗 olakrutrim.com

Himalayan Academy Boarding School   Bhaktapur, NP
Website Developer   Nov. 2023 – Jan. 2024
- Redesigned The HABS website to be more user-friendly, increasing available resources for staffs and student
- Used MongoDB and NextJS to setup a server side system for Hosting files, managing userdata and handling user requests, enhancing the user-experience

🔗 habs.edu.np

Delta Creation   Bhaktapur, NP
Backend Developer Intern   Sept. 2023 – Nov. 2023
- Optimised API calls and structure to decrease memory usage by 50% and sped up query time by 45%
- Used Javascript, MongoDB and REST APIs, to allow users to modify and receive notifications upon deal updates and dealership messages
- Helped develop internal tools to automate end-to-end user testing utilising Django and JWT, increasing coverage by 70%
- Designed a webpage utilising React, HTML/CSS and Tailwind and connected it to cloud services to provide an interactive platform for users

🔗 deltacreation.com.np

PERSONAL PROJECTS

GEM-1o   July - Present
Generative Expression Model (GEM) is an SLM designed for creative writing and humanlike conversations, developed from scratch with a focus on lightweight architecture and specialized language modeling. The model was built using a custom architecture, trained on diverse datasets, and fine-tuned for specific tasks. Current phase includes model evaluation and deployment.
🔗 huggingface.co/comethrusws/gem-1o

SpotifyDownloader   March 18 2024 – July 2 2024
A Web app that allows users to download tracks/albums from Spotify to their device, built with Next.js, PostgreSQL, Supabase & TailwindCSS.
🔗 spotifydownloader-smoky.vercel.app

Breadit   April 8 2024 – June 17 2024
A Community a website similar to Reddit where users can view and share links or text posts for others to see, built using Next.js, Prisma, PostgreSQL, Supabase & TailwindCSS.
Users can create their own community (Subreadit), post (links, images,texts) and interact with it (comment/upvote/downvote).
🔗 breadit-wheat-vercel.app

HABS   Dec. 17, 2023– April 12 2024
A Website with features like contact form, appointment-ticketing system and Admission portal I built for a school with PEVN stack (PostgreSQL, Express.js,Vue.js,Node.js) and Supabase.
🔗 habs.edu.np

PassSentinel   Oct. 20, 2023 – Nov. 4, 2023
A simple password manager made with Python and libraries like `tkinkter`,`bcrypt`,`fernet` and SQLite for database.
Users can automatically add, update a password and delete it. Also can be integrated as a browser extemsion.
🔗 PassSentinel (github)

CERTIFICATIONS
- Introduction To Machine Learning
- Machine Learning With Python
- NLP Language Detection
- Introduction to Linux
- Getting Started with Rust

AREAS OF INTEREST
- Natural Language Processing
- Neural Networks
- Linux
- Research & Development
- GAN/RAG