

Bibek K C



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Summary

Hello! I'm Bibek from Nepal. I enjoy the process of creating complex applications. If your search query has high lexical or semantic similarity with my **general_skill_corpus**, feel free to be in touch.

general_skill_corpus = [“managing largescale project backends using Agile methods”,
“delivering easy-to-use Python libraries and granular APIs”,
“handling network gateways for SaaS platforms and setting up reverse proxies”,
“containerizing and deploying applications or executables across different OS”,
“staying up-to-date with LLM trends and their real-world use cases like RAGs”,
“creating quick demos with intuitive frontends and UX interactions”,
“swiftly experimenting with the latest frameworks, regardless of the field”]

I'm a firm believer in my mantra, **“If they can Do it, I can Do it”**.

Want to scan more about me? First, scan the QR code located at top right or directly visit my website and/or chat with my chatbot at <https://kc-bibek.com.np>. My chatbot is always eager to meet new people!

Experiences

AI Researcher

Artificial Language Intelligence (ALI Co. Ltd), Korea

Aug 2023 - Present

- Develop neural-network-based document Layout Detector (306M), labels: [text, title, list, figure, table]
Two versions: fast (TensorRT-10FPS in T4GPU) vs slow (Openvino-1FPS in CPU) for BATCH_SIZE=1
- Develop layout ranker for natural reading order of detected blocks and rule-based fast-header detector for selectable PDFs
- Maintainer of ALIParse (in-house python library) that provides easy access to layout analysis modules, independent of document types and extends to provide granular APIs and RAG service
- Serve custom models using TorchServe/Ollama and setup automated workflows using GitHub Actions
- Maintainer of on-device AI Writing Assistant App and develop a cross-editor Writing Assistant Plugin App that will soon be launched as a B2C product (Built on top of my weekend project [B-Assist](#))
- Prepare and obfuscate executables for Python and Node.js applications to run on Windows and macOS
- Demo Videos: [SamuGen-Plugin](#), [Layout-Detector](#), [Document-Parser](#), [Document-RAG](#), [Form-Extraction](#)

Research Intern

Robust Intelligence & Robotics Lab, KAIST

Jul 2022 - Dec 2022 (6 months)

- For a single moving camera setup, developed a combined framework for realtime 6DoF Pose Estimation and Scene Graph Generation (SGG) in Robotic Manipulation Task using [Cosypose](#) framework for 6DoF pose and [Neural-Motif](#) framework for SGG and performed experiments on custom cup datasets. [[Demo](#)]
- For 2 fixed cameras setup, developed a probabilistic multi-view object-pose estimation framework that (i) associates multiple estimation results with scene graphs, (ii) combines pose distributions from singleview based estimators, and (iii) constructs a unified scene graph by predicting a unified pose distribution per object using MC dropout. More details in [draft-paper](#).

Backend Developer Intern

Bisonai, Seoul

Jan 2022 - Feb 2022 (2 months)

- Built data pipelines (DAGs) in Airflow to collect DeFi data from various sources like Uniswap, Coingecko and stored them in MongoDB Atlas.

- Implemented backend API server using FastAPI and Strawberry (Python GraphQL Library).

Data Visualization Project Intern

Interactive Computing Lab, KAIST

Jul 2021 - Aug 2021 (2 months)

- Made a course material for Data Visualization class, i.e., a simple [tutorials](#) for visualizing plots with Vegalite and D3.js in Observable notebook for beginners to learn Data Visualization techniques.

Projects: Refer portfolio_bibek for more details and other projects

- **B-Assist:** Better-Assistant for daily tasks related to text using local AI. *Demo Video:* [B-Assist](#)
- **Website Maintenance:** Managing bintechint.com, a startup providing tech products in Nepal.
- **Renameify:** An opensourced automated file renaming application that organizes PDF files according to contextual information. This is useful for accountants dealing with a large number of random filenames. *Demo:* [ReNameify](#)
- **FastRAG:** A production-ready RAG app optimized to run on normal-grade PCs. *Repo:* [FastRAG](#)

Education

Korea Advanced Institute of Science and Technology (KAIST)

Sep 2019 - Aug 2023

Bachelors, Double Major in Electrical Engineering and Computer Science, [Courses-taken](#)

British Model College (BMC)

July 2015 - June 2017

*GCE A Levels, 4A*s in Chemistry, Biology, Physics, Mathematics*

Skills

Linux, Python, Pytorch, JavaScript, React, Electron, Docker, HuggingFace, Gradio, TorchServe, Git, GitHub Actions, FastAPI, Nginx, Poetry, PyInstaller, LlamaIndex, GoogleCloud, Public Speaking, Team Player

Awards

Intel AI PC Innovation Challenge - First Place	ALI, January 2025
KAIPlus+ Scholarship Award	KAIST, Apr 2023
Social Innovation Award	Tsinghua University, Jul 2021
Inclusive Leadership	Common Purpose, 2021
KAIST International Student Scholarship	KAIST, 2019-2023
Best student of the batch 2015/2017	The British College, 2017
Country Topper in AS Level Chemistry	University of Cambridge, Nov 2016

Other Experiences

- Hackathon experiences include Techstars Startup Weekend Busan 2022, where we proposed data-driven predictions for optimal daily customer numbers in restaurants, and Junction Asia 2022, where we proposed a second-hand market in the metaverse, providing users with a new experience.
- Student Assistant in International Scholar and Student Services (ISSS) team at KAIST from Spring 2023
- International Community Representative of Nepal for Spring 2020, Spring 2021, Fall 2021, Spring 2022 and Fall 2022
- Mentor of new international students for Fall 2020, Spring 2021, Fall 2021 and Spring 2022
- Attended Global Summer School 2021, AI and Sustainable Development Goals in Tsinghua University
- Teacher Assistant in British Model College from July 2017 to May 2018