

# Bibek K C



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## Summary

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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

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### 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
- Set up reverse proxies for all demo applications and manage the Kong gateway
- Prepare and obfuscate executables for Python and Node.js applications to run on Windows and macOS
- Demo Videos: [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*

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- **B-Assist:** Better-Assistant is a fun project designed to integrate AI features into commonly used low-spec PCs. Currently, it functions as a basic writing assistant, offering a new writing experience by incorporating generative models into your preferred text editors. Future updates will expand its capabilities to include input audio processing and screen understanding. Demo Video: [b-assist](#)
- **MBTI Prediction:** In Qualcomm-KAIST Innovation Awards-Hackathon 2023, I proposed a hierarchical classifier based approach with 4 KoBert and 4 SVM models with techniques like data augmentation, feature-engineering and adaptive fine-tuning. I was 3rd in phase-2 private leadership ranking. More details in [qia-presentation](#).

## Education

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**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

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Linux, Python, JavaScript, PyTorch, Docker, HuggingFace, Gradio, TorchServe, Git, DVC, GitHub Actions, FastAPI, Nginx, Kong, Poetry, PyInstaller, Ollama, LlamaIndex, GoogleCloud, Public Speaking, Team Player

## Awards

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<b>KAIPlus+ Scholarship Award</b>	KAIST, Apr 2023
<b>Social Innovation Award</b>	Tsinghua University, Jul 2021
<b>Inclusive Leadership</b>	Common Purpose, 2021
<b>KAIST International Student Scholarship</b>	KAIST, 2019-2023
<b>Best student of the batch 2015/2017</b>	The British College, 2017
<b>Country Topper in AS Level Chemistry</b>	University of Cambridge, Nov 2016
<b>2nd Position in Inter-School Olympiad</b>	Budhanilkantha School, 2016

## Other Experiences

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- 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