

# Ronak Krishna Shrestha

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## 🎯 Career Objective

To leverage my data science and artificial intelligence skills in a challenging and growth-oriented role, contributing to impactful projects and innovations in the technology sector. I aim to bring my strong analytical skills, problem-solving abilities, and a keen eye for detail to drive success and deliver results. I am eager to collaborate with a dynamic team and contribute to the company's goals and vision while continuously expanding my technical expertise and knowledge.

## 🎓 Educational Background

<b>BSc (Hons) Computing with Artificial Intelligence</b>	<b>02/2023 – Present</b>
<i>Islington College, London Metropolitan University</i>	
<b>SLC</b>	<b>2022</b>
<i>St. Xavier, Jawalakhel, NEB</i>	
<b>SEE</b>	<b>2020</b>
<i>Shuvatara School, Lamatar, NEB</i>	

## ⚙️ Skills

### Technical Skills:

- **Programming Languages:** Java, Python, HTML, CSS, SQL
- **Frameworks:** Numpy, Pandas, Matplotlib, Seaborn, scikit-learn, Django, PyTorch, TensorFlow
- **Applications:** Excel, Power BI, Git
- **Operating Systems:** Windows, Linux

**Soft Skills:** Critical Thinking, Communication, Teamwork, Problem-solving

## 📁 Projects

### 📁 Professional Projects

- **KMC Chatbot** (Kathmandu Metropolitan City)
  - **Languages used:** Python
  - **Technologies used:** LangChain, OpenAI API, Milvus Database, Vector Store
  - **Description:** Developed an advanced chatbot for Kathmandu Metropolitan City using a Retrieval-Augmented Generation (RAG) architecture, Milvus database for vector storage, and similarity search. Implemented enhanced query handling and document-based question answering for public service information.

## ✍ Personal Projects

### • Predicting the Market Value of Footballers

- **Languages used:** Python, Jupyter Notebook
- **Description:** Developed a model to predict the market value of football players based on selected features. Highlighted “ball control” as a key predictor through feature selection. Future work could expand on feature engineering, including one-hot encoding and enhanced correlation analysis. A potential website interface could enable users, such as coaches, to estimate player market values in real-time.

### • Fine-tune LLAMA with QLoRA

- **Languages used:** Python, Jupyter Notebook
- **Description:** Implemented fine-tuning of Large Language Models (LLMs) like LLAMA using QLoRA (Quantized Low Rank Adaption), which quantizes the LLM to 4-bits to reduce memory usage. QLoRA allows efficient, low-memory adaptation of large models while preserving speed, and can be applied to models such as RoBERTa, GPT-2, and GPT-3. Developed with a focus on parameter-efficient tuning.

### • Sentiment Analysis with BERT

- **Languages used:** Python, Jupyter Notebook
- **Description:** Built a simple BERT-based sentiment analysis model with a single-layer encoder. Created essential components, including a tokenizer and dataset class, and achieved a training accuracy of 71

## 🧰 Experience

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**Palm Mind Technology** — Machine Learning Intern (08/2024 - 10/2024)

*Developed chatbots using LangChain for various client websites.*

**Bajra Technology** — AI Trainee (11/11/2024 - Present)

*Selected for a highly competitive AI traineeship focused on building foundational skills in machine learning, deep learning, MLOps, and data engineering. This program emphasizes hands-on experience, enabling me to learn and apply AI concepts from scratch while gaining insights into end-to-end AI project workflows.*

## 🌟 Certifications

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**Coursera Supervised Machine Learning**

## References

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