

CURRICULUM VITAE

SHUVECHHYA BAJRACHARYA

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ACADEMIC QUALIFICATION

DEGREE	FACULTY	BOARD/UNIVERSITY	GRADES	YEAR COMPLETED
Bachelor	Computer Engineering	Kathmandu Engineering College, kalimati, Kathmandu	83.05	8 th semester completed
Proficiency Certificate	Science	St. Mary's High School, Jawalakhel, Lalitpur	A+	2019
School Leaving Certificate	-	St. Mary's High School, Jawalakhel, Lalitpur	A+	2017

ACADEMIC ACHIEVEMENTS

- Achieved top rank in the +2 college exams.
- Awarded scholarships in the 2nd, 3rd, and 7th semesters for academic excellence.

EXPERIENCE

Software Engineer Intern

LIS Nepal | January 2024 – March 2024

- DDL Creation & Data Validation:** Created DDL scripts and ensured data accuracy.
- SQL in Snowflake:** Developed complex SQL queries for data manipulation and analysis.
- SnowSQL:** Executed SQL queries and automated tasks using SnowSQL.
- Documentation & Table Mapping:** Mapped client tables to standard formats using Snowflake, Netezza, and Excel.

Junior Assistant System Security

Access World Tech | July 2024 – Present

- Web Application Deployment:** Deployed web apps on a LAMP stack, optimizing performance and ensuring compatibility with Laravel and PHP frameworks.
- API Development:** Designed and implemented RESTful APIs using FastAPI for seamless integration and data exchange.
- Server Administration:** Managed Linux servers, handling installation, configuration, and troubleshooting.
- Monitoring Tools:** Deployed and configured Telegraf, InfluxDB, and Grafana to monitor server performance, create alerts, and analyze system anomalies using regex.

COMPUTER SKILLS

- Programming Languages:** Python
- Database:** SQL, ETL

- **Virtualization:** VMware, Proxmox
 - **Containerization:** Docker
 - **Monitoring:** Grafana, InfluxDB, Telegraf
 - **Network Fundamentals:** DNS, Networking Protocols
 - **Operating Systems:** Linux
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PROJECTS

1. Netflix Data Analysis

- Explored Netflix user behavior and content trends through comprehensive data analysis.
- Leveraged Python's libraries such as NumPy, Matplotlib, Pandas, and Seaborn to uncover patterns in user preferences, peak viewing times, and popular genres.
Skills: Python, Data Visualization, Pandas, Seaborn

2. Hotel Bookings Data Analysis

- Conducted a Python-based analysis of hotel bookings data to identify booking patterns and customer preferences.
- Created insightful visualizations, offering a concise understanding of trends shaping the hotel industry.
Skills: Python, Data Analysis, Visualization

3. AI Content Detection

- Implemented an AI content detection system using DistilBERT for NLP tasks and integrated a plagiarism detector leveraging cosine similarity.
- Ensured accuracy in identifying plagiarized content, enhancing content authenticity and integrity.
Skills: NLP, DistilBERT, Cosine Similarity, Python

4. LAMP Server Deployment

- Deployed and configured a LAMP stack on Ubuntu for web hosting, with SSL/TLS security and optimized MySQL performance.
Skills: Linux, Apache, MySQL, PHP, SSL/TLS

7. DNS Server with BIND

- Configured BIND for DNS records, caching, and internal network resolution.
Skills: DNS, BIND, Network Config

9. AI Content Detection Using BERT Model

- Implemented an AI content detection system utilizing the BERT (Bidirectional Encoder Representations from Transformers) model.
- Preprocessed and fine-tuned the BERT model on a custom dataset to classify and detect AI-generated text content.
- Developed a robust pipeline for text analysis, achieving accurate and efficient classification.
Skills: NLP, BERT, Machine Learning