JEEVAN DHAKAL

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ACADEMIC QUALIFICATION

Bachelor of Science in Computer Science and Information Technology, Butwal Multiple Campus, Butwal, Tribhuvan University, Kathmandu, Nepal; Percentage: 67.24%; Oct'22

WORK EXPERIENCE

Back-End Developer (Full-Time), **Aeon-Soft Solution Technology, Putalisadak, Kathmandu**
Dec'22 – Present

Aeon-Soft Solution Technology is an IT company striving to deliver better solutions for the future.
- Developed a recommendation system that suggests the best-fit Colleges and Universities for students for *'Tuteeline',* which is a significant project of the company
- Developed database schema using Postgres for *'Tuteeline'*
- Created a GraphQL API using gqlgen (Golang) for *'Tuteeline'*
- Developed a chat system using WebSockets in Golang and Redis
- Implemented an automatic notification delivery system for waitlisted students' SEE results
- Collected Colleges and Universities' data through web scraping using Playwright and Beautifulsoup (Python)

INTERNSHIP

Intern – Python Developer (Full-Time), **Princelab Pvt. Ltd., Budanilkantha, Kathmandu**
Apr – Jul'22, Sep – Nov'22

Princelab Pvt. Ltd. is an organization facilitating easy comprehension and learning of Artificial Intelligence for individuals.
- Built an API for the '*Real-State Buy/ Sell/ Rent System'* using Django-Rest-Framework
- Integrated various Nepali e-payment gateways like Khalti and E-sewa
- Developed a desktop app for *'Gym Management System'* using PyQt and utilized Matplotlib for statistical representation
- Web scrapped entrance preparation resources and converted them into a REST API using Beautifulsoup
- Maintained and added new features to an existing API for Princelab

ACADEMIC PROJECT

Title: Price Comparison System
Duration: Nov'21 – Jan'22
Team Size: 3
Summary: The system provides a streamlined way for users to search products across different Nepali e-commerce sites, compare prices, and manage the wish list with targeted prices. It aims to enhance the shopping experience by helping users make informed decisions and notifying them when the desired products fit their budget.
Individual Role: Led and created a full-stack web application for live goods price comparison from various e-commerce sites. Employed web scraping with Beautifulsoup, Django (back-end), and Bootstrap (front-end). Implemented Celery for tracking and notifying users when desired prices were available.

INDEPENDENT PROJECTS

Title: Blog and Tools Sharing
Duration: Jun'23 – Present
Team Size: 1
Summary: The project aims to provide a platform for sharing knowledge through posts and fostering discussions using comments. Developed a full-stack web application for a personal blogging app using Django in the backend and Bootstrap in the frontend. Utilized TinyMCE for a rich text editor to enhance the visual appeal of posts.

Title: Sentiment Analysis Project
Duration: Sep'23
Team Size: 1
Summary: Also known as Opinion Mining, the Natural Language Processing (NLP) technique determines the sentiment or emotion expressed in text data. Pioneered a Sentiment Analysis project using TensorFlow, delving

into the exciting world of Machine Learning to decipher the positive and negative tones in 50,000 movie reviews. Crafted a user-friendly model using TensorFlow's Sequential architecture. Played around with layers like Embedding, SpatialDropout1D, and LSTM, all while discovering the power of Deep Learning. Mastered the art of transforming raw text into a language the machine understands, employing smart tokenization and padding tricks to ensure that the model could handle the quirks of human expression.

PRESENTATION
Delivered a presentation titled *'Introduction to Tuteeline'* as a Back-End Developer at Aeon Soft Solution Pvt. Ltd., Kathmandu (Aug'23)
- Gave a brief introduction of *'Tuteeline'* and how to utilize it to create an application
- Volunteered to manage the audience

SEMINARS & CONFERENCES
- Volunteered in a seminar on *'Introduction to Python'* conducted by Computer Science and Information Technology (CSIT) Association of Butwal Multiple Campus, Butwal, held at Butwal Multiple Campus (Jun'18; Duration: 2 days)
  o Gained a comprehensive understanding of fundamental aspects of Python, fundamental concepts, syntax, and basic principles with key topics such as data types, control structures and functions
  o Equipped with a robust foundation to utilize Python for scripting
- Participated in a seminar on *'Roadmap to IT Career'* conducted by CSIT Association of Butwal Multiple Campus, Butwal, held at Butwal Multiple Campus (Jul'17; Duration: 6 hours)
  o Gained a comprehensive overview of key components, career paths, and essential skills for success in the IT industry
  o Became acquainted with topics such as emerging technologies, industry trends, and potential career opportunities

CERTIFICATIONS
- *Data Science with Python,* Great Learning (Issued on: Aug'23; Duration: 12 hours)
  o Gained skills in applying Statistics, Machine Learning Algorithms, Linear Regression, and Logistic Regression to real-world problems
  o Translated complex ideas into understandable terms, and gained skills in conveying statistical insights and model outcomes effectively
- *Data Analysis with Python: Zero to Pandas,* Jovian (Issued on: Aug'23; Duration: 60 hours)
  o Completed coursework focused on popular Python libraries, including NumPy, Pandas, Matplotlib, and Seaborn
  o Analyzed a salary dataset comprising 6704 rows and 9 columns, examining the data based on country and race, and derived some insightful observations

TECHNICAL SKILLS
- **Languages:** Python, Go
- **Web Development:** Django, gqlen, GraphQL
- **Data Analysis:** Pandas, Matplotlib, NumPy, Seaborn, Scikit-Learn
- **Technologies:** Git, Linux, Docker, AWS (S3, SES), CI/ CD
- **Web Automation:** Selenium, Playwright
- **Database:** MySQL, Postgres, Redis
- **Others:** Microsoft Office, Office 365

EXTRACURRICULAR ACTIVITIES
- Volunteered and donated blood in *Blood Donation Campaigns* organized by Full form of CSIT (CSIT) Association of Butwal Multiple Campus, Butwal, held at Butwal Multiple Campus (Jun'18, Apr'19, May'21)
- Volunteered and played in *Futsal Tournament* hosted by CSIT Association of Butwal Multiple Campus, Butwal, held at Lumbini Futsal Pvt. Ltd. (Feb'20)