







# Suwesh Prasad Sah

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## EDUCATION

### National Institute of Technology Rourkela, India

Bachelor of Technology in Computer Science and Engineering

Dec 2020 - Jun 2024

GPA: 7.80/10.0

### St. Xavier's English High School, Bihar

Intermediate in Science and Maths

Jun 2018 - Sep 2020

Percentage: 81/100

### Marigold English Boarding School, Bhaktapur

Matriculation

2018

GPA: 3.60/4.0

## EXPERIENCE

### Hero Housing Finance

Graduate Engineer Trainee

Jun 2024 - Present

Gurugram, Haryana, India

- Built a Retrieval-Augmented Generation (RAG) pipeline-based LLM application integrating FAQ and video knowledge bases to an intelligent chatbot and video clip generator for technical support and sales enablement in Salesforce Org.
- Software testing and implementation of test automation workflows for desktop and mobile applications.

### TVS Motor Company

Data Engineer, Internship

May 2023 - July 2023

Bangalore, Karnataka, India

- Worked with the finance team, building data pipelines and frameworks on Microsoft Azure cloud platform, with Agile methodology.
- Built ETL pipelines to connect, extract and load data from Azure data lake, Delta tables, SAP HANA tables, SAP client APIs, and SQL server on Azure Data Factory.
- Created frameworks in Databricks using Python and PySpark to extract transform and load files and data from source data lake to destination.

### Wobblrr IT Services

Network Engineer, Internship

Jul 2022 - Sep 2022

Delhi, India

- Simulated and developed VLAN in Cisco Packet Tracer which were later used for on-site physical implementation.

## RESEARCH AND PROJECTS

### Parallel Perception Network

Research Publication (view paper)

2024 - 2024

[huggingface/PPN](#)

- Proposed and developed a novel baseline architecture for developing sophisticated models capable of true hardware-enabled parallelism, achieving neural processing speeds that mirror the high velocity of an autonomous race car.
- The model enables real-time scene segmentation and reconstruction from LiDAR perceived data and achieves a 2x speedup in model inference time compared to a sequential setup.

### Multi-core Sentiment Engine

Python, NLP

2023 - 2023

[github/SentimentEngine](#)

- Developed a rule-based text analysis algorithm based on ETL approach with multiprocessing for parallel processing of multiple text files.
- Performed web data extraction using requests library, parsing HTML content using BeautifulSoup and text pre-processing using NLTK's tokenize functions, to employ sentimental analysis by computing positive and negative scores, polarity, and more parameters.

### Parking Forecasting System

Python, ML, IoT, Time Series Prediction

2023 - 2023

[github/SPS](#)

- Implemented an IoT-based smart parking system with data collection on the cloud.
- Using sci-kit learn, two models are used to individually predict the probability of slot availability. When compared, the Multi-Layer Perceptron gives slots with more probability of availability compared to the Random Forest Classifier.

## TECHNICAL SKILLS

**Programming Languages & Frameworks:** Python, C/C++, MySQL; PySpark, PyTorch, Transformers

**Cloud & DevOps:** Microsoft Azure, AWS, CI/CD, Automation

**Operating Systems:** Windows, Linux, MacOS

**Other Programs:** Adobe Lightroom, Adobe Photoshop

**Programming Concepts:** Data Structures, Algorithms, DBMS, OOPs

**Languages:** English, Hindi, Nepali, Maithili

## CERTIFICATIONS

**CISCO Networking Academy** Introduction to Data Science Course completion.

2023

## RELEVANT COURSEWORK

**Computer Science:** Deep Learning, Machine Learning, Cloud Computing, Software Engineering, Database Management System, Computer Organization and Architecture, Data Structures and Algorithm, Distributed Systems, Object Oriented Programming, Operating Systems, Computer Networks