

Ojash Gurung

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EDUCATION

- Troy University** Troy, Alabama
Master's in computer science – Artificial Intelligence Jan 2024 – Present
Courses: Data Warehouse & Data Mining, Advanced Database, Computer Architecture
- Softwarica College of IT & Ecommerce (Coventry University Affiliation)** Dillibazar, KTM
Bachelor's in computer science (GPA-3.41 or Upper Second Rank) March 2019 – Aug 2022
Courses: Data Structure, ERD-Model, Obj Oriented Programming, Web Development, Java, Python, Kotlin (Android App Development), Agile Methodology, SQL Database, MongoDB, Neo4j, Node.js, Docker, DevSecOps, IoT, Raspberry Pi

SKILLS SUMMARY

- Languages:** JavaScript, Python, Java, Kotlin, SQL, TypeScript
- Frameworks:** Scikit, ReactJS, NextJS, Django, REST-Framework, Pandas, Matplotlib
- Databases:** MySQL, MongoDB, PostgreSQL, Neo4j
- Tools:** MongoDB Compass, Beautiful Soup, Docker, GIT, MySQL Workbench, PowerBI
- Platforms:** Linux, Windows, MacOS, Amazon EC2, Firebase
- Soft Skills:** Agile Methodology, SCRUM, Waterfall, ERD Models, Documentation

PROFESSIONAL EXPERIENCE

- Upwork** Remote
Freelance Web Developer (Full Time) Aug 2023 – Nov 2023
 - Designed and Implemented RESTful API:** handled and created backend endpoint using NodeJS and ExpressJS & helped in Data Portal REST API's
 - Data Schema Modeling:** Developed and automate the schema of client's data and optimize as per system and application need
- [Softwarica College of IT & E-Commerce](#)** Dillibazar, KTM
Teaching Assistant (Part Time) Dec 2021 – April 2022
 - Assisted professor:** Planning and implementing Quiz and presentations for online classes during pandemic
 - Provided One-on-One Support to Students:** helped students with their problems of their final assignment submissions and topic selection
 - Graded Weekly Quiz for Course Developing the Modern Web (STW205CDE):** ReactJS, REST API, NodeJS

PROJECTS

- [ChatGPT Web App Clone:](#)** Developed a ChatGPT website clone using NextJS and leveraged the OpenAI API models for NLP to process and generate responses. **Tech:** NextJS, TailwindCSS, OpenAI API, Firebase, Next Auth, SWR
- [Chat Web App:](#)** Developed FullStack Application inspired to create chat functionality using Socket.io and ReactJS for real-time chatting with inbuilt authentication. **Tech:** ReactJS, Socket.io, TailwindCSS, MongoDB, ExpressJS, NodeJS
- Autonomous Vehicle:** Worked on team in lane detection area using HoughLineP Algorithm and live camera footage. Also utilized OpenCV and various other python packages to process video frames and identify lane boundaries. **Tech:** Python, HoughLineP Algorithm, OpenCV, TensorFlow

- **Object Detection & Face Recognition Glasses:** Developed Smart Glasses for visually impaired people. Enhanced real-time performance by leveraging upgraded hardware - Google Coral TPU & Raspberry Pi 4. **Tech:** Python, TensorFlow, OpenCV, gTTS library
- **Employee Registration:** Implemented Java Swing for GUI and MySQL database to create employee registration system. **Tech:** Java, Java Swing, MySQL

RESEARCH

- **Research-Scholar: Exploring the feasibility and possibility of blockchain technology in the Real-estate Sector through Smart Contracts.**
Supervisor: Dr. Manoj Shrestha

HONORS AND AWARDS

- **Intra College IOT Expo Winner (2021)** – Part of Team Bright Night we created a **Smart Glasses for visually impaired people** where we Implemented object detection, face recognition, GPS tracking, and Stair's detection all done using Python, OpenCV, TensorFlow, and HoughLineP Algorithms
- **Hult Prize Runner-up (2021)** – Our Team created a **Smart Vertical Farming Concept** by implementing object detection, soil fertility detection, soil hydration detection and fertilizer quantity analysis using Python, TensorFlow and Deep Learning

CERTIFICATIONS

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| • Advanced Learning Algorithm
<i>Build and train a neural network with TensorFlow to perform multi-class classification.</i> | DeepLearning.AI & Stanford University
view |
| • Supervised Machine Learning: Regression and Classification
<i>Linear Regression, Regularization to Avoid Overfitting, Logistic Regression for Classification, Gradient Descent</i> | DeepLearning.AI
view |
| • Hacktoberfest 2023 Participation
<i>Open-Source Community, GitHub, HacktoberFest2023, Appwrite, JavaScript, ReactJS</i> | Hacktoberfest
view |
| • Intro to Machine Learning
<i>Machine Learning Algorithms, Classification, Clustering, Regression</i> | Kaggle
view |
| • Certificate of Completion – Pandas
<i>Pandas Fundamentals</i> | Kaggle
view |
| • Unsupervised Learning in Python
<i>Unsupervised and Python Fundamentals</i> | Kaggle
view |
| • Completion of Data Science Foundation
<i>Data Science, Data Analysis, Data mining, Data Warehouse</i> | Great Learning |
| • Certificate of Completion of Devops
<i>Ansible, Jenkins, Kubernetes, Docker</i> | TechAxis |

VOLUNTEER EXPERIENCE

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| • Organize Nepali Welcome Event in University
<i>Conducted new student welcome programs in Spring holidays</i> | Troy, Alabama
2024 |
| • Technical Mentorship at Hack-A-Week Event
<i>Conducted a whole week mentoring more than 50 students</i> | Pulchowk Campus, Lalitpur
2023 |

All the evidence required for the experiences and certifications will be provided in case of need. *