

Kahan Jash

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INDUSTRIAL EXPERIENCE

Cygnnet Infotech, Ahmedabad: AI & ML Intern

January 2024 – Present

Cygnnet Infotech is a leading IT solutions company that provides end-to-end solutions for clients' most pressing business needs.

- Currently associated with Cygnnet for 6 months internship period.
- Working with a group of 2 other interns for the project titled AI Enabled HR Analytics and honing my **NLP** as well as front-end skills.
- Will be utilising working with technologies such as **MongoDB, PHP, HTML, CSS, JavaScript and python** to take this software application till production level.

Cygnnet Infotech, Ahmedabad: AI & ML Intern

June 2023 – July 2023

- Led a team of 2 interns to construct a prototype which provided insights into the sentiment associated with each keyword, which can be useful for various purposes such as content creation, market research, or understanding customer feedback for the company.
- Worked with Google Search Console, Google Analytics 4, and Keywords Cluster data to perform **sentiment analysis** and created various visual representations making it easier to identify patterns, trends, or outliers for the marketing team.
- Honed **communication skills** by dealing with non technical team to create a product which has minimal learning curve for future usage .

PROJECTS

Attendance Management System using Face Detection

July 2023 - December 2023

- Developed a comprehensive Face Attendance System using **Python's OpenCV** library for face recognition, **MySQL** for student data storage, and **Tkinter** for the graphical user interface (GUI).
- Implemented a secure registration process for capturing and storing student information, including names, student IDs, and images, directly into a **MySQL database**.
- Utilized **OpenCV's face recognition module** with the **LBHP classifier** to identify and verify student faces during attendance tracking.

American Sign Language Interpreter

August 2022

- Gathered and processed more than 30,000 data images from the **ASL dataset**.
- Employed various data cleaning techniques, including **binning, cropping, and one-hot encoding**, to optimize data for deep learning models.
- Applied various deep neural models such as **AlexNet** , **ResNet** , **VggNet** and compared their accuracy.

E-commerce website

March 2022

- Web application displays various products.Users can view and add products to cart, and complete the purchase.
- **MySQL Database** is used to store the details of products, cart, categories, brands and orders
- **HTML/CSS/Bootstrap** to develop the frontend
- Employed my programming skills in **PHP** to insert, update, read and delete data from the database

Diabetes Prediction System

March 2022

- Conducted an in-depth analysis of Type 2 Diabetes among women above 21 years of age using a Kaggle dataset.
- Data visualization using histogram and scatter plot, **Correlation Analysis** and **PCA** performed.
- Classification Algorithms employed which included **Logistic Regression, KNN, Naive-Bayes, SVM, Decision Tree and Random Forest**. Random Forest model used generating an accuracy of 83.7 percent.

EDUCATION

B. Tech - Computer Science & Engineering

October 2020 - May 2024

Nirma University, Ahmedabad, Gujarat

RESEARCH EXPERIENCE

Reinforcement Learning for Autonomous Vehicles

April 2023 - October 2023

- Developed and implemented a novel reinforcement learning algorithm that significantly improves the performance of autonomous vehicles in complex environments.
- The reward function is designed to encourage the agent to drive safely and efficiently.
- It considers various factors such as distance to obstacle, number of lane changes, speed, environmental conditions and traffic intensity as well.

CERTIFICATIONS

Google Data Analytics Professional Certificate

6 months

- Learned key analytical skills (**data cleaning, analysis, & visualization**) and tools (**spreadsheets, SQL, R programming, Tableau**) along with visualizing and presenting data findings in the form of dashboards and presentations.

Machine Learning Specialization by Stanford University and DeepLearning.AI

2 months

- Trained a neural network with **TensorFlow** to perform multi-class classification, using tree ensemble methods.
- Built recommender systems with a collaborative filtering approach and a content-based deep learning method & built a deep reinforcement learning model

Salesforce Sales Development Representative Professional Certificate

3 months

- Learned to articulate the purpose of the Sales Development Representative role and develop strategies for your personal and professional success

IBM Cybersecurity Analyst Professional Certificate

4 months

- Developed knowledge of cybersecurity analyst tools including data protection; endpoint protection; SIEM; and systems and network fundamentals.

Google UX Design Professional Certificate

6 months

- Created a professional UX portfolio that includes 3 end-to-end projects: a mobile app, a responsive website, and a cross-platform experience

ACTIVITIES

Association of Computer Engineering Students

November 2022 - November 2023

Organizing Secretary

- Managed the organization and execution of all technical and non-technical events, including annual orientations, conferences, career talk shows and workshops, also managed events with over 300 registrations in a day.
- Organized an educational workshop which discovered the area of research by Dr. Sudeep Tanwar who is one of the most respected and honoured research scientists in the world with over 10,000 citations , h-index of 56 on Google and authored 2 books over 200 technical papers. This event had around 100 registrations.

National Service Scheme

March 2022 - December 2023

- Actively participated in Corporate Social Responsibility (CSR) initiatives , including the adoption of a local village.
- Engaged in regular visits to the village which focused on imparting moral values and ethical principles to primary school students.
- Promoted importance of academic education and sports education to support holistic development of community.

TECHNICAL SKILLS

Languages: C, Python, JavaScript, Shell Script, Java, HTML, CSS, C++, SQL

Tools & Library: MySQL, TensorFlow, Selenium, Packet Tracer, Wire Shark

Technologies & Databases: Git, UNIX / LINUX, SQL Server, MySQL, MongoDB, HADOOP

Interpersonal skills: Collaborative, Strategist, Compassionate, Diplomat, Articulate communicator, Engaged listener

LANGUAGES

- **English** - Full Professional Proficiency
- **Hindi** - Full Professional Proficiency
- **Gujarati** - Mother Tongue