SHASHANK H L

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ABOUT ME

I am a passionate and highly motivated student in Artificial Intelligence and Machine Learning. With a strong foundation in programming, mathematics, and data analysis, I am eager to expand my knowledge in data science. I have hands-on experience with machine learning algorithms, data visualization tools. My academic journey has equipped me with skills in Python, C, CPP and various Python frameworks. I am always eager to learn new skills and explore diverse opportunities that contribute to my continuous growth and advancement in my professional career.

EDUCATION AND TRAINING

16/12/2021 – CURRENT B G NAGARA, India
BACHELOR OF ENGINEERING BGS Institute of Technology, B G Nagara – CGPA 8.13

14/04/2019 – 14/07/2021 MANGLORE, India
PRE-UNIVERSITY CERTIFICATE Expert PU Science College – 93.5%

13/04/2019 HAGARIBOMMANAHALLI, India
SECONDARY SCHOOL LEAVING CERTIFICATE. Karnataka School Examination and Assessment Board – 92.96%

INTERN EXPERIENCE

30/11/2021 Banglore, India
INTERN YHILLS TECH PVT.LTD

- Gained hands-on experience in Machine Learning and Artificial Intelligence using Python and its libraries. Explored data preprocessing techniques, including data cleaning, feature engineering, and normalization.
- Built and evaluated machine learning models, focusing on supervised and unsupervised learning algorithms. Worked with popular frameworks like TensorFlow, Scikit-learn, and NumPy to implement AI solutions.
- Developed a basic AI model and tested its performance using various evaluation metrics. Gained insights into model optimization techniques to enhance performance and efficiency. Collaborated with mentors and peers on real-world AI applications, improving problem-solving and coding skills.

22/10/2023 Mandya, India
INTERN INTERNSHALA

- Acquired in-depth knowledge of Data Science and Machine Learning, focusing on data-driven decision-making.Learned Data Analysis Fundamentals, including data wrangling, exploratory data analysis (EDA), and statistical modeling.
- Gained expertise in Data Visualization using Matplotlib, Seaborn, and Power BI to create interactive dashboards.Explored Predictive Analytics and applied Machine Learning algorithms to real-world datasets.Understood the integration of AI in Data Science, including NLP, deep learning, and automation.
- Successfully completed a Capstone Project, applying data science techniques to solve industry-specific problems.
  - o Project 1: New York taxi fare prediction using python libraries and data visualization
- Improved skills in Python, SQL, and cloud-based data analytics platforms for handling large-scale data.

03/03/2023 Bengaluru, India
INTERN SKOLAR

- Developed a **Plagiarism Checker Tool** as part of the final year internship, focusing on detecting content similarity using natural language processing techniques and Python.
- Implemented TF-IDF vectorization and cosine similarity to accurately measure text similarity.
- Designed a user-friendly GUI using Tkinter for input handling and result display.
- Applied text preprocessing (tokenization, stopword removal, stemming) to improve detection accuracy.

PROJECTS

GRAPHA (Graphical Password Authentication)

Implemented a layer of system security for password protection in websites and applications.
– **Tools & technologies used**: Database Management System, SQL, PHP, CSS, HTML.

30/11/2022
New York Taxi Fare Prediction

Using the predefined datasets from Kaggle and GitHub we predicted the fare increase in new York taxis
Tools & technologies used: Python and its Libraries, Machine Learning.

30/10/2023
Image Classification Using Julia

We used Julia, which is designed for high-performance machine learning tasks to create simple image classification and a machine learning framework called FastAI to process and visualize the imagenette2–160 datasets, load the ResNet18 pretrained model and trained it using GPU.

13/11/2024
Image Caption Generator

we used Pytorch to build CNN and LSTM models to create image caption generators. we also built a CNN encoder and RNN decoder, and train it on tuned hyperparameters. we learnt NLP, CNN, LSTM, and experience in creating trainer and validation functions using Pytorch.

25/03/2025
A novel Encryption Approach for securing healthcare data

For the security of the Healthcare data we will be using the Python, SM4, AES and Rubik's algorithm. we also used shuffling the blocks method for encryption and decryption of data. This project was further recognized through publication in an IEEE conference paper.

DIGITAL SKILLS

Python, C++, HTML, CSS,Kotlin,XML │ Python: scikit-learn, NumPy, pandas, matplotlib, Seaborn, OpenCV, Pillow, SciPy │ Machine Learning, Artificial intelligence, Web Development, Android app Development

LANGUAGE SKILLS

Mother tongue(s): **KANNADA,**

Other language(s): **ENGLISH, HINDI, TELUGU, GERMAN(a1)**

VOLUNTEERING

01/2023 Mandya
Project Instructor

Volunteer Hackathon Organized by BGSIT
Helped the team to build a DBMS project using php and sql i.e. Vehicle Parking System

06/2024 Mandya
Project Mentor

Guided Students on System Design and Implementation of the Graphical Password Authentication

06/2024 Banglore
Hackathon Co-Ordinator

Successfully conducted the UTS Hackathon 2024 in June. Contributed as Project Mentor and the Event Manager.

CERTIFICATES

Diploma in Computer Programming languages
Artificial Intelligence and Python Libraries
Python Programming