HARSH VASISHT

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➢ Personal Profile:

Enthusiastic artificial intelligence engineer seeking to deliver state-of-the-art AI solutions. Experience includes using algorithms and data mining for my own personal projects while at Gautam Buddha University (BTech Artificial Intelligence, 2020-24). Strong skills include Predictive Modelling, Data Mining, and Quantitative Analysis.

➢ Experiences:

1. XROS Fellow, Focally (APR 2023-Present)
   a) Develop and implement technology to detect signed language for effective communication between deaf and dumb individuals.
   b) Convert sign language to text, enabling better understanding and reciprocation between the two parties. This would help the user to monitor vitals frequently.
   c) Create speech-to-text tools to facilitate communication between hearing and non-hearing individuals.
2. AI/ML Intern, STMicroelectronics (AUG 2022-Present)
   a) To build a bridging product which could bring AI powered machines into our day-to-day life.
   b) To develop and optimize an algorithm to detect heartrate using Webcam.
   c) This would help the user to monitor vitals frequently.
3. AI/ML Lead, Google Developer Student Club, GBU (SEP 2022 – PRESENT)
   a) An Active speaker in AI/ML speaker series
   b) Led the organization and planning of the annual AI/ML research symposium.)
4. iNeuron.ai, Campus Tech Leader (JUN 2022-Oct 2022)
   a) Organized one of North India's Largest Hackathon (Tech-A-Thon 3.0) with over 900 participants
   b) Mentored Quantum Machine Learning to students.
   c) Organize/Manage various Tech events in Campus.
   d) Latest event organized, (Quantum Machine Learning)
5. Signy Advanced Technologies, AI Engineer Intern (APR 2022):
   a) Analyzed datasets like, UTK, LFW, Google dataset, etc.
   b) Built Deep Learning Models for human activity, face, object, age detection
   c) Worked on Kaldi and NLP, built ASR.
6. TechLearnIt, Software Developer intern (JUN 2021 - DEC 2021)
   a) Trained with various ML models to solve real life projects.
   b) Worked upon OpenCv, NLP and sentiment AI like hotcakes.
7. Mangalkari (NGO), Web Development (JUL 2021 - SEPT 2021)
   a) Made a Landing website for the NGO. (Mangalkari Public Welfare Trust)
   b) Monitored ongoing campaigns (Drishti, Sahay)
8. IEEE Intern, Deep Learning intern (AUG 2021 - SEPT 2021)
   a) Worked with multi-neural layers.
   b) Worked upon the AlexNet model for Image Classification.
   c) Integrated AlexNet for medical image classification, as a preliminary test.

➢ Academic Qualifications:

1. **Bachelor of Technology (B.Tech), Artificial Intelligence** 2020-2024
   Gautam Buddha University, Greater Noida, UP
2. **Senior Secondary (XII), Science** Year of completion: 2020
   Arwachin Bharti Bhawan Senior Secondary School (CBSE board)

➢ Achievements:

a) AI/ML Lead Google DSC Gautam Buddha University.
b) Secretary of Centre of Cognitive Computation and Research at Gautam Buddha University(2022-present).
c) Former Team Lead at Signy Advanced Technologies (Now Pruvid) (2022)
d) Anchored webinars on Machine Learning and Deep Learning (2022).

➢ Skills:

a) Python/Julia/C++/R
b) Data Science/Computer Vision
c) Machine Learning/Deep Learning
d) AWS
e) Flask
f) Data Structures and Algorithm
g) C (Programming Language)

➢ Selected Projects:

- Smart coffee machine (Sept 2022) (Associated with STMicroelectronics)
- AI-enabled Gym trainer (Aug 2022):
  1. The app would first register you to provide a dashboard. Also, it uses PPF signals to monitor Heart Rate.
  2. Using camera reps and body posture would be monitored, along with it will send diet tips.
- Home automation using Python and Arduino (JAN 2022):
  1. Automating basic day-today tasks using Arduino and Firmata.
  2. Making smart devices using Arduino.
- MNIST-Hand-Digit-Recognition-using-Flask (FEB 2022):
  1. Deep Learning Model for handwritten digit recognition.
  2. Deployed using Flask.
  3. HarshVasisht/MNIST-Hand-Digit-Recognition-using-Flask (github.com)
- Image-to-Image transformation (NOV 2021):
  1. Aerial view snapshot to Google maps layout, for instant implementation of search algorithms. (dijkstra etc.)
  2. HarshVasisht/Pix2Pix_STREET_TO_SATELITTE (github.com)
- Smart Attendance management SYstem (SASY) (OCT 2021):
  1. Smart Attendance management System.
  2. An innovative approach, to bring the power of ML in the palm of your hand.
  3. An automated app to mark attendance automatically, using the phone's camera and excel sheet.
  4. HarshVasisht/-SASY-Smart-Attendance-System (github.com)