SAKSHAM SHARMA

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Saksham0207

in saksham-sharma

EDUCATION -

Indian Institute of Technology BHU, Varanasi

B. Tech. in Metallurgical Engineering

Adarsh Public School

M.P. State Board (XII)

Holy Family Convent Sr. Sec. School

CBSE(X)

July 2019 - June 2023 CGPA - 8.34

May 2019

Percentage - 85.4

May 2017 CGPA - 10

WORK EXPERIENCE ·

Rgen.ai | ML Engineer Intern

13 March 2022 - Present

- Built an end-to-end pipeline which generates a talking head video of a user saying a provided input text.
- Researched various Text-to-Speech, Voice-Conversion, Talking-Head-Generation models.
- Fine-tuned different GAN and Diffusion based models to adapt and work with Hindi language .
- Building a robust One-Shot-Model Pipeline which learns from just one sample input for new users.
- Exposure : PyTorch, TensorFlow, GANs, Diffusion Modelling, One-Shot-Models.

ExaWizards | ML Engineer Intern

30 May 2022 - 31 Aug 2022

- Worked on optimizing a children surveillance system at day care centers to detect kids in a frame and then further classify them based on their expressions.
- Experimented with various object detection and image classification models to find models with **good** inference speeds and accuracy.
- Converted the models trained on **PyTorch** to **TensorRT** for edge device inference on **Jetson Nano**.
- Finally implemented a Facial Recognition Algorithm to find out kids in need of attention.
- Achieved an overall inference speed increase of two times keeping the inference accuracy almost constant as compared to the already existing pipeline.
- Exposure : PyTorch, ONNX, TensorRT, Edge Computing.

Projects -

Exercise Instructor

- Created a **Pose estimation model** for **detecting body points** of a person while exercising.
- Implemented different models like PoseNet, AlphaPose, MediaPipe BlazePose on TensorFlow.
- Selected PoseNet as pose estimation model and collected data for different exercises using it.
- Created a **Pose classification model using the collected data** to detect whether a person is doing the exercises correctly and suggest corrections accordingly.

Hybrid Movie Recommendation systems

- Started with **Knowledge based recommendations** that recommends movies based on movie genre.
- Created two **Content based recommendation systems**, the first one based on information about movie's cast and crew and the other one based on movie's plot.
- Created User and Item based Collaborative Filtering recommendation systems.
- Stacked content based recommendation and collaborative filtering models to build a **Hybrid movie** recommendation system.

SKILLS -

• Languages: Python, C, C++, SQL

- Tools/Technologies: Git/GitHub, PyTorch, TensorFlow, Django, Tableau, ONNX, TensorRT
- Areas of Interest: Data Analytics, Data Science, Machine Learning, Deep learning

Position of Responsibility -

Publicity Senior Advisor at FMC Weekend '23(Annual Digital Arts Fest)

- Managed a team of 30 people to propagate information regarding the fest to audience across India.
- Responsible for **designing a roadmap** for the team and ensuring smooth flow of operations.
- Achieved a total footfall of around 500 participants (including online and offline participations).