



YASH RAHUL DESHPANDE
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ACADEMIC DETAILS

COURSE	SPECIALIZATION	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	SCIENCE	Vidyadham science Jr. College	Maharashtra State Board of Secondary and Higher Secondary Education (MSBSHSE)	76.31 %	2020
CLASS X		Oxford International School	CBSE	92 %	2018

Subjects / Electives	Python , Probability and Statistics , C and C++
Technical Proficiency	Python , C++ , JavaScript , HTML + CSS , MySQL , Node.js , MongoDB , React.js , Express.js

SUMMER INTERNSHIP / WORK EXPERIENCE

Artificial Intelligence Intern , UST Global <ul style="list-style-type: none">Improved User Experience of a client's E-commerce website using Image Captioning and Generative AI.Prepared a customized dataset including over 50,000 image text pairs in JSON format.Collected , cleaned , and formatted the dataset in many iterations by observing model performance critically to make it apt for the use case.Fine-tuned LLMs MiniGPT-4 and Qwen with a preceding layer of Grounding Dino(Image Recognition) and SAM(Segmentation).The customized dataset resulted in improved accuracy with 97% accurate results.Compared and critically examined the models on the basis of accuracy and response timeSet up the model on an AWS EC2 instance with 96GB GPU and tested the results for concurrent users.The final result was an accurate model with an average response time of 1 second.	Jul 2023 - Dec 2023
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PROJECTS

Sociopedia - Web Development (MERN Stack) <ul style="list-style-type: none">View Project on GithubDeveloped a responsive MERN (MongoDB , Express.js, React, Node.js) social media application from scratch.Configured and managed the backend , using Node.js, Middlewares and Express.js.Configured the database connection to MongoDB Atlas and utilized Mongoose for database operations .Implemented authentication and authorization mechanisms using JSON web tokens (JWT) for user security.Designed and structured frontend components using React, Redux , and Redux Toolkit.Created a visually appealing user interface with customizable color themes and dark mode.Developed essential features , including a navigation bar , registration , and login pages , and user profiles .	Sep 2023 - Oct 2023
Image Caption Generator - Python , Keras , Tensorflow , NumPy , Pandas <ul style="list-style-type: none">View the Project on GitHubDeveloped an Image caption generator in Python using Keras and TensorFlow .Utilized Flickr dataset for realistic and diverse image data and VGG 16 model for image captioning .Implemented dual model architecture with CNN for image features and LSTM for NLP .Developed a scalable and versatile solution for generating accurate and contextually relevant image captions	Jul 2023 - Aug 2023
Multi-Page Personal Blog Application - JS, Node and Express , MongoDB , APIs <ul style="list-style-type: none">View the Project on GitHubImplemented the front-end user interface using HTML , CSS, and Bootstrap , ensuring a visually appealing and responsive design .Created server-side logic using Node.js and Express.js , handling routing , API integration , and database operations .Integrated external APIs to provide additional functionalities and enhance user experience .Configured the database connection to MongoDB Atlas and utilized Mongoose for database operations and data modeling .	Nov 2022 - Nov 2022