

JATIN KSHATRIYA

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EDUCATION

- **SAMRAT ASHOK TECHNOLOGICAL INSTITUTE** Madhya Pradesh, India
Bachelor of Technology - Artificial Intelligence and data science; GPA: 8.2 July 2020 - June 2024
Courses: Operating Systems, Data structure and algorithms, Analysis and Design Of Algorithms, Artificial Intelligence, Machine Learning, Computer Networking, Database management system (DBMS), Natural Language Processing, Cloud Computing, Business Intelligence

SKILLS SUMMARY

- **Languages:** Python, Javascript, C++
- **Frameworks:** NodeJS, Django, Firebase SDK, PyTorch, Tensorflow, React
- **Others:** Linux, MongoDB, Git, Github, CSS, MySQL, Docker, CI/CD, DevOps, RDBMS

EXPERIENCE

- **HappyMonk** 07.2023
Data Engineer Bangalore
 - **HappyMonk:** As a Data Engineer intern at HappyMonk, I am working on developing the inference pipeline of advanced video analytics solution. My role involves processing real-time video data from various sources and optimizing the pipeline for high-performance, accurate insights. I collaborate with a team to ensure reliability, scalability, and efficiency, contributing to a cutting-edge product that enhances security and efficiency across industries.
- **Mastork Technologies** 01.2023 - 04.2023
Backend Developer Intern Delhi
 - **Edjobster:** Cooperated with front-end developers and other team members to design more cohesive and functional code. Designed, developed and tested end points using Django and Django Rest Frame Work. Assisted project manager to prepare implementation plan from technical perspective.
- **KAIZEN YOUNG CONSULTANT** 12.2020 - 12/2021
Web Development Intern Pune, Maharashtra
 - **My Question Box:** Worked on adding additional features and database migration in educational website My Question Box (back-end written in django) and deployed the applied changes.
 - **Live VNS:** Maintained and updated CMS of News app Live VN5 which has over 100K downloads in play store.
 - **Billify:** Led and designed database structure, utilizing the Firebase SDK and integrating it into the React front-end application for a startup called Billify.

PROJECTS

- **Monolingual Machine Translation Model:** Designed and implemented a Transformer-based machine translation model. Employed masking techniques to enhance context understanding. Utilized language embedding to enable translation between different languages. Developed a shared vector space representation for two languages. Improved language structure comprehension and translation process efficiency.
- **Skin zen:** Developed a personalized acne severity detection and recommendation web-based product called Skin Zen. Utilized ResNet-101 architecture for accurate acne severity classification. Pre-trained the model with weights from the ImageNet dataset. Incorporated eye-cascade and face-landmarks models to extract skin patches for improved classification. Implemented a recommendation component using the GPT-3 API. Leveraged GPT-3 language model for generating human-like text responses. Provided consistent prompts to GPT-3 for effective recommendation generation.
- **Vesuvius-Scrolls:** Developed an ML solution to detect ink in Herculaneum scrolls using X-ray scans. Utilized Attention U-Net architecture on a 3D X-ray dataset with infrared photos and binary masks. Achieved successful ink detection, showcasing expertise in ML, computer vision, and model optimization.

COMPETITIONS AND ACHIEVEMENTS

- **Finalist of Smart India Hackathon - 2022 (National Level):** The problem statement was to develop a chatbot builder for creating conversational chatbots without requiring coding skills. These chatbots would be used for troubleshooting questions, training, and problem diagnostics. Our proposed solution is a web interface built using the Next.js technology stack, incorporating MongoDB and RASA.