

Yash Shah

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EDUCATION

VIT UNIVERSITY

Integrated MTech (Dual Degree) IN COMPUTER SCIENCE ENGINEERING WITH BUSINESS ANALYTICS.
2020-2025 | Chennai, Tamil Nadu, CGPA: 9.52 / 10

ACHIEVEMENTS

- Secured 1st place in Smart India Hackathon 2023.
- Secured 1st rank in academic year 2020,2021,2022,2023 in VIT.
- Published 3 research papers.
- Received outstanding performance certificate from BARC, for contribution in development of AI systems.
- Qualified in top 100 teams out of 50,000+ participating teams in Amazon ML Challenge.

SKILLS

LANGUAGES

Python, R, C, Java, C++, JavaScript.

PROFICIENCIES

Computer Vision, Text Processing, Machine Learning, Data Visualization, Dashboards, Predictive modelling, Chatbots.

TECHNOLOGIES

Cloud Systems, Big Data, Cryptography, Blockchain.

DATABASES

MySQL, NoSQL (MongoDB, Cassandra), Hadoop.

TOOLS

Git, Tableau, PowerBI, Azure, AWS, Stata, VS, Apache Spark, Kafka, Flink.

PARADIGMS

Deep-Learning, Transfer-Learning, Automated ML, Quantitative Analysis.

WORK EXPERIENCE

Bhabha Atomic Research Centre | Project Intern

May 2023 - July 2023 | Mumbai, India

- Led an Automated Vehicle detection, tracking and logging system project.
- Utilized ML-Ops to upgrade level-0 systems to level-1 by implementing automatic testing and monitoring for improvement of ML models by establishing a CI runner on a development machine saving 2hrs of manual testing per test.
- Introduced an SSIM-based performance monitoring feature to rectify failure cases of Computer Vision models for Video Use-cases.
- Contributed to the publication of two research articles documenting the novel algorithms designed in aforementioned work.

Defect Scanner Pvt Ltd | Machine Learning Intern

May 2023 - Present | Seoul, South Korea

- Developed and delivered a scalable and intelligent AI solution on cloud using Microsoft Azure cloud services.
- Established a streaming server on Microsoft Azure for globally accessible live video streaming reducing streaming latencies to less than 1 second.
- Identifying and reporting defects in product from live stream of conveyor belt feed in factory saving 12hrs of manual monitoring daily.
- Led the development of an incremental learning model to detect and register new object classes unknown to the system for Production lines.
- Developed an Action Recognizer model to Reduce Assembly line defects.

Naldeo Group | Solar Project Consultant

October 2022 - February 2023 | Lyon, France

- Team Lead to predict congestion in the solar grids project.
- Utilizing Mathematical applications to convert daily data into hourly distribution
- Using the generated hourly distribution predicting the real time congestion values in solar grids using predictive modelling enabling efficient grid load setup.

PROJECTS

Effimix | [Ensemble Learning, Computer Vision, Data preprocessing]

- Published in MDPI Journal A Novel Multi-Feature Fusion Method for Classification of Gastrointestinal Diseases Using Endoscopic Images
- The proposed Effimix model employs a combination of squeeze and excitation layers and self-normalizing activation layers for precise classification of gastrointestinal diseases surpassing previous benchmarks.

Urban-Sat | [Transfer Learning, Segmentation]

- Developed a satellite image segmentation application using U-Net model
- The application finds its uses in urban planning from identification of roads via satellite images to generating layout of houses.

DocAuth | [Meta-Data and Statistical Analysis, MERN Stack]

- Designed a novel document analysis system utilizing meta data analysis, Fourier transforms, Error level analysis, and Template Matching, to identify Photoshop, alterations and forgeries using Vectored Feature-Maps matching.
- It can scrutinize document authenticity, enabling precise detection and highlighting of manipulations and ensuring document integrity with 97% accuracy

VideoGPT | [Chatbot, LLMs, NLP]

- Developed an automated YouTube video transcript summarization system using NLP techniques and speech-to-text capabilities, harnessing LLMs.
- To transform lengthy video transcripts into concise and informative summaries while including question-answering and multilingual capabilities.