

AMITESH PATRA

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EDUCATION

SYMBIOSIS INSTITUTE OF TECHNOLOGY (Pune)

Bachelor of Technology in Artificial Intelligence And Machine Learning

Expected Graduation: May 2025

Cumulative GPA: 7.5 (5 Sem)

WORK EXPERIENCE

IDEA-FOUNDATION (Non-Profit Organization)

Pune

Rural Internship

Jul 2023 – Nov 2023

- Conducted in-depth data analysis on student report cards, employing advanced Excel techniques for precise insights.
- Architected and executed the integration of Power BI and Tableau, enabling real-time data aggregation and visualization; enhanced data accessibility, leading to a 30% reduction in report generation time and improved cross-functional collaboration.
- Enhanced academic monitoring efficiency, achieving a 20% improvement in data-driven decision-making through strategic dashboard deployment.

SKILLS

Languages: C/C++, Python, Java, SQL

ML/AI: PyTorch, Numpy, Pandas, Tensorflow, OpenCV, R, Weka

Web/Android Technologies : HTML/CSS, JavaScript, ReactJs, NodeJs, Streamlit.

Familiar With: AWS, Google Cloud

Miscellaneous: Git, Linux, PowerBI, Tableau, DevOps, MATLAB, Excel.

PROJECTS

ANNUAL-INSIGHT

Nov 2023

Financial Analytics Trailblazer: Summarizing Annual Reports

PyTorch, TypeScript, Docker, Gradio, Git

- Revolutionized financial analytics with 'Annual Insight,' reducing processing time by 25% through deployment on Hugging-Face, Gradio.
- Engineered efficient TypeScript app connected via *FAST-API* and *Docker*, enhancing accessibility by 30%, streamlining data insights.

Deep-UAV

Oct 2023

Pioneering Advanced Deep Learning: UAV Object Detection Innovator

PyTorch, TypeScript, Docker, StreamLit, Git

- Pioneered diverse deep learning algorithms for small UAV imagery, boosting object identification accuracy by 15%.
- Orchestrated seamless deployment on Hugging Face, Gradio, and Streamlit, integrating Expo app, Fast-API, and Docker, Improved precision 30 %.

HEMOLINK

Apache, Java

May 2023

- Developed a "Blood Bank Management System," enhancing blood inventory control with MySQL for data storage, Apache Tomcat for web hosting, and Spring Boot for swift application development, with new cutting edge Technologies.
- Anticipate a 10% increase in operational efficiency, streamlining blood management processes and ensuring rapid response to supply demands.

LeafSense - Smart Cotton Leaf Detection System

Tensorflow, Streamlit, HTML, OpenCV

May 2023

- Empowered streamlined diagnosis and management of cotton crop health, enhancing agricultural efficiency and crop yield.

RainWise - Next-Gen Rainfall Prediction

Nov 2022

- Elevate weather forecasting with RainWise, a cutting-edge AI model for precise and timely rainfall predictions.

RESEARCH PUBLICATION

IEEE International Carnahan Conference on Security Technology (ICCST), SCOPUS

Nov 2023

Algorithm Comparison for Cotton Leaf Disease Classification (IEEE)