

# BHARATH P

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## EDUCATION

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### Sathyabama Institute of Science and Technology

B.E. CSE with specialization in Data Science, CGPA 9.17

Chennai, TN

Sept 2022 – Sept 2026

## Projects

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### End-to-End MLOps Project: Skin Disease Classification,

- Utilized **VGG16 architecture with transfer learning**, achieving an **accuracy of 81.82%** and a **loss of 0.84**.
- Designed and implemented a comprehensive **MLOps pipeline**, automating data ingestion, model preparation, training, evaluation, and deployment.
- Leveraged **MLflow to track experiments** and evaluate model performance, focusing on accuracy and loss metrics.
- Developed a **Flask API** and a **React frontend**, then Dockerized the application and finally deployed the project on **AWS EC2 Instance**.

### Natural Language Processing: Text sentiment Analysis with web scraping,

- Utilized **BeautifulSoup** and **Requests** to scrape data from hundreds of websites, preprocessing and tokenizing the data for sentiment analysis.
- Overcame difficulties in extracting data from specific **HTML tags**.
- Addressed issues in removing **stop words** and separating **positive and negative words** during tokenization.
- Calculated various **metrics** to accurately measure text sentiment.

## EXPERIENCE

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### Research and Development Intern

Feb 2024 – Apr 2024

*DMAP InfoTech*

- Conducted research** on emerging **technologies** and **trends** in the industry.
- Acted as an instructor**, presenting and explaining new trending technologies to the team.
- Collaborated with the development team** to propose innovative ideas for software development projects.
- Worked closely with **cross-functional teams** to ensure the alignment of development efforts with research findings.
- Provided **valuable insights** that influenced the direction of software development and technology adoption within the company.

### Team Lead

Sept. 2023 – Oct 2023

*Smart India Hackathon*

- Led a team of six developers** to create a **web-based platform** for the Smart India Hackathon.
- Designed and implemented** front-end and back-end features using **Flask** as the framework and **MySQL** for database management.
- This project **acts as a platform** for sharing each other's projects and collaboration on same project among universities.
- Worked with mentors and teammates** to gather input, enhancing the portal's functionality and user experience.

## CERTIFICATES

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- NPTEL:** Introduction to Machine Learning, IIT Madras
- Google professional Data Analytics
- Oracle OCI Foundation Associate

## SKILLS & INTERESTS

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**Skills:** Python, JavaScript, MERN stack, Machine Learning, AWS, Database management

**Interests:** Current affairs, Playing sports, Travelling, Problem solving and Persistence