

# Shailly Agarwal

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## EDUCATION

- Acharya Institue Of Technology** Bengaluru, India  
**Bachelor In Engineering - Computer Science Engineering; GPA: 8.83(till 6th sem)** 2021 - 2025  
**Courses:** Operating Systems, Data Structures and Algorithms, Artificial Intelligence and Machine Learning, Computer Networks, DBMS, Software Engineering And Project Management

## SKILLS SUMMARY

- **Data Structures and Algorithms**
- **Programming Languages:** Java, Python, C++, SQL, HTML, CSS, JavaScript
- **Machine Learning**
- **Front End Web Developer**
- **Soft Skills:** Problem-Solving, Teamwork, Communication, Time Management, Content Writing, Adaptability

## PROJECTS

- Preliminary Skin Diagnosis**  
**Deep Learning and Image Segmentation** August 2024
  - Collaborated with a multidisciplinary team to develop an AI-driven diagnostic tool for early detection of skin diseases from medical images.
  - Processed a dataset of 12,000 skin disease images using scikit-image for advanced image preprocessing and segmentation techniques.
  - Implemented a neural network model utilizing Backpropagation to classify various skin conditions based on feature extraction.
  - Contributed significantly to the deep learning model development, with a focus on achieving scalability and non-invasive diagnostic capabilities to improve patient outcomes.
- Sentiment Analysis On Review Text**  
**Machine Learning** July 2024
  - Designed and implemented a sentiment analysis model for customer review classification using TF-IDF for feature extraction and Logistic Regression for classification.
  - Developed automated data preprocessing pipelines to enhance efficiency in handling large text datasets, including tokenization, removing noise, and negation handling.
  - Evaluated model accuracy through comprehensive performance metrics such as accuracy, precision, recall, and F1-score, achieving optimized results for real-world deployment.
- House Price Prediction**  
**Machine Learning** July 2024
  - Built a predictive model for estimating house prices using Python, leveraging Pandas, NumPy, and Scikit-learn for data manipulation and machine learning.
  - Conducted feature engineering, model training, and tuning to enhance prediction accuracy.
  - Developed a solid foundation in handling structured data, applying regression techniques, and interpreting model performance metrics.

## CERTIFICATIONS

- **Data Science For Beginners(Board Infinity)**
- **Introduction to Artificial Intelligence(Acmegrade with IIT Bombay Mood Indigo)**
- **Regression Analysis(Infosys Springboard)**
- **Data Structures And Algorithm Using Java(Infosys Springboard)**
- **Introduction To Web Development(IBM(Coursera))**
- **Getting Started With EnterPrise- Data Science, AI Badge (IBM(Credly Badges))**
- **Java Course (IntelliPaat)**
- **Agile Project Management (Google(Coursera))**

## ACHIEVMENTS

- **Marketing And Public Relations Head**, Innovation And Entrepreneurship Design Cell, AIT 2024
- **Winner**, Intercollege Coding And Debugging , Kairos(St. Pauls College) 2024
- **Content Writer**, Developers Club Of Acharya, AIT 2022 - 2023
- **Women Tech Maker**, Developers Club Of Acharya, AIT 2022 - 2023