DV

# Divya Vishwanath

Machine Learning Engineer • Cloud Engineer • Data Engineer

SR Engineering College • 2026 Pass out

was to learn about virtualization in the cloud, deploying scalable applications, automating cloud resources, and ensuring security and monitoring within cloud environments.

## Work Experience

### AIML Virtual Internship @ InternPe, India

Link

July 2024 - July 2024 (1 month) | Part-time

- Data Collection and Preprocessing, Model Development, Machine Learning Fundamentals, Model Training and Evaluation, Deep Learning Basics
- Data Preparation and Feature Engineering, Model Building and Optimization, Performance Evaluation and Analysis, Project-Specific Contributions,
- Structured Data Features, Text Features, Image Features, Temporal/Time-Series Features

Skills Developed: Python, PyTorch, Machine Learning

### Cloud Virtual Internship @ AICTE, India

Link

July 2024 - Sept 2024 (3 months) | Part-time

- he AWS Cloud Virtual Internship offered a hands-on experience with a focus on understanding cloud infrastructure and applying the core AWS services for a variety of cloud solutions. The primary aim
- Assisted in the design of cloud architectures, ensuring they followed best practices for scalability, security, and cost-efficiency. Automated backups and scaling solutions for AWS infrastructure, ensuring efficient use of resources. Integrated AWS API Gateway to create RESTful APIs for Lambda functions.
- Practical, hands-on exposure to the AWS ecosystem including core services like EC2, S3, Lambda, and RDS. Implemented best practices for cloud security, cost optimization, and performance monitoring in cloud environments. Learned to use BASH scripting and AWS SDKs to automate tasks, minimizing manual intervention. Implemented key security features, including role-based access control (RBAC) and data encryption.

Skills Developed: AWS, Customer Service, Cloud Firestore Security Rules

## Projects

### Heart Attack Analysis

- Enable early detection of heart attack risks for proactive healthcare measures. Improve prediction accuracy to better support medical professionals and patients. Lay the foundation for a predictive tool that can integrate into medical diagnostic systems.
- Data Collection, Data Preprocessing, Exploratory Data Analysis (EDA), Model Selectio, Evaluation and Optimization, Testing and

## Tagline

"Software Engineer skilled in Python, machine learning, and problem-solving."

## Skills

Java | C# | HTML | Python | CSS | Networking | Network security | Linux | Linux Kernel Module | AWS

## Education

**SR Engineering College, Hasanparthy**

B.Tech, Computer Science Engineering (CSE) | 9.5 CGPA

2022 - 2026

**Kerala EM High School**

Class X | 10 CGPA

2020 - 2020

**Kakatiya Junior College**

Class XII | 9.7 CGPA

2022 - 2022

Deployment

## Certifications & Courses

Introduction to Networks

- This certification covers networking fundamentals, including basic configurations, protocols, and network components, as well as IP addressing and subnetting.

March 2024 | Certificate Link

Data Structures - Coursera

- This course focuses on foundational data structures and algorithms, such as arrays, linked lists, stacks, queues, and search/sort algorithms, along with their applications in software development.

October 2023 | Certificate Link

Data Structures and Algorithms - Coursera

- Interactive visualizations for exploring data patterns related to heart health. Predictive analysis indicating high or low risk of heart attack. Potential for including additional attributes, like family history and lifestyle factors, to enhance predictive power. Scalable design for future integration with larger medical datasets.

Skills Developed: Machine Learning, Python, PyTorch

### Tesla Stock Price Prediction

- Forecast Tesla stock prices to assist investors in making data-driven decisions. Develop a model that captures key patterns and trends from historical data. Achieve a level of accuracy that adds tangible value to stock market forecasting
- Data Collection, Data Preprocessing, Exploratory Data Analysis (EDA), Feature Engineering,
- Visual analysis of stock trends, patterns, and volatility. Predictive model that provides short-term and long-term forecasts of Tesla stock prices. Integration with financial data sources for real-time updates. User-friendly interface for investors to interpret predictions effectively.

Skills Developed: Machine Learning, PyTorch, Python, Keras

### SHAIR: A Personalized Hair Care Platform

- Provide a personalized platform for hair care advice, recommendations, and community engagement. Enhance user experience with tailored product suggestions and virtual consultations. Build a community-driven platform where users can exchange tips and experiences.
- Frontend Development, Backend Development, Database Management, AI Integration, Video Conferencing, Testing and Launch.
- User Profiling, AI-Based Recommendations, Virtual Consultations, Community Engagement, Product Database.

Skills Developed: HTML, Javascript, CSS, UI/UX

### Tamil Cyberbullying

- Detecting Cyberbullying, Classification of Content, Sentiment Analysis, Preventive Measures, Educating the Public.
- Data Collection, Preprocessing the Data, Feature Engineering, Model Training, Model Evaluation, Deployment and Integration, Monitoring and Improvements.
- Text Features, Cyberbullying Labels, Sentiment Features, Textual Embeddings, Contextual Features, Behavioral Features.

Skills Developed: Data Collection, Cyber Security, Data Modeling, OpenType Feature File, Python, PyTorch

### Video-Based Emotion Recognition

- Emotion Detection from Video, Multimodal Emotion Recognition, Real-Time Processing, Human-Computer Interaction, Healthcare and Therapy, Security and Surveillance, Personalized Content.
- Data collection, Preprocessing, Feature Extraction, Model Training, Model Evaluation, Real-Time Deployment, Post-Processing and Output, Feedback Loop.
- In this specialization, learners developed and honed essential skills in developing fast and reliable programs. Aspects of basic algorithms as well as solved many programming assignments where the goal is to implement a program solving a gien computational problem correctly and quickly.

October 2023 | Certificate Link

Database Management System

- Focuses on relational database concepts, SQL, database design, and database normalization, along with the foundations of managing and querying databases.

March 2024 | Certificate Link

Theory of Computation

- course on NPTEL explores foundational aspects of computer science, focusing on computational theory, formal languages, and automata theory.

September 2024 | Certificate Link

Linux Fundamentals

- The Linux Fundamentals course is typically an introductory program that covers essential concepts and skills for working with Linux-based operating systems.

March 2024 | Certificate Link

AWS - Cloud Foundations

- The AWS Cloud Foundations course provides an introductory overview of Amazon Web Services (AWS) and the core concepts of cloud computing. It’s designed for beginners to understand cloud technology fundamentals, learn about AWS's global infrastructure, and get a glimpse of key services offered on AWS.

August 2024 | Certificate Link

- Facial Expression Features, Body Language Features, Voice Features(optional), Temporal Features, Multimodal Fusion, Real-Time Emotion Recognition, Multiclass Classification.

Skills Developed: Data Collection, Data Mining, Data Modeling,
Computer Vision, Cyber Security, Networking, Web Ontology
Language, WebIDL

### Customer Service Chatbot

- Developed a customer service chatbot using Python and the Natural Language ToolKit(NLTK) to handle user queries efficiently with automated responses.
- Implemented machine learning techniques with frameworks like TensorFlow and scikit-learn for intent recognition and improved conversational accuracy.
- Added a voice for the bot

Skills Developed: Python, PyTorch, YAML