# Durai Pon Singh — Computer Science & Engineering Student

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## Objective

A highly motivated Computer Science student at Jeppiaar Engineering College with a strong foundation in full-stack development, machine learning, and web technologies. Eager to apply academic knowledge and hands-on project experience in a software development role to contribute to innovative projects.

## Education

**Jeppiaar Engineering College, Anna University, Chennai**
*Bachelor of Engineering in Computer Science and Engineering, Expected Graduation: 2026, CGPA: 8.3*

## Technical Skills

**Languages**: HTML, CSS, JavaScript, Python, Java, C (basic)

**Frontend**: React, Bootstrap, Framer Motion, Anime.js, Animate.css, Three.js

**Backend**: Node.js, Express.js, Flask

**Databases**: MongoDB, MySQL

**Tools**: Git, GitHub, Visual Studio Code, Spyder, Eclipse

**Learning Focus**: MERN Stack, App Development, Machine Learning, Deep Learning, Large Language Models (LLMs)

## Projects

**Weather Website**: Developed a weather application using React and OpenWeatherMap API, providing real-time data on temperature, humidity, and wind speed.
Hosted on Vercel: `https://weather-zeta-indol.vercel.app/`

**MERN Stack Web Application**: Built a full-stack web application using MongoDB, Express.js, React, and Node.js. Features include dynamic user authentication, real-time data updates, and a responsive UI.

**Machine Learning Model for Predictive Analysis**: Created a predictive analysis model using Python, focusing on data cleaning, feature engineering, and optimizing model performance through supervised learning.

**API Development with Flask**: Developed RESTful APIs with Flask, utilizing MongoDB for data storage and ensuring efficient, secure access to resources.

## Certifications

### Web Development Foundations

**HTML & CSS**: Completed a comprehensive course on HTML and CSS to enhance web design skills, focusing on responsive layouts and advanced styling techniques.

**JavaScript Basics**: Developed strong JavaScript skills, enabling dynamic web applications with interactive elements and DOM manipulation.

**Bootstrap Framework**: Mastered the Bootstrap framework to create mobile-first, responsive websites with consistent design.

## Machine Learning Basics

**Supervised Learning**: Gained hands-on experience with supervised learning algorithms like linear regression, decision trees, and random forests, applied to real-world datasets.

**Data Preprocessing**: Developed expertise in data cleaning and preprocessing techniques, including normalization, transformation, and handling missing data for ML models.

**Model Evaluation Techniques**: Learned advanced model evaluation methods, including cross-validation, confusion matrices, and performance metrics like accuracy, precision, and recall.

## Full-Stack Web Development

**React Framework**: Developed interactive, component-based web applications using React, with proficiency in hooks, state management, and routing.

**API Integration**: Integrated various third-party APIs into full-stack web applications, ensuring seamless communication between front-end and back-end.

**Node.js & Express.js**: Built back-end systems using Node.js and Express.js, focusing on routing, middleware, and secure user authentication mechanisms.