

PARVESH AHAMED S

Electronics and Communication Engineering Student

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EDUCATION

Panimalar Engineering College

Bachelor of Engineering in Electronics and Communication Engineering

September 2023 – May 2027

Chennai, Tamil Nadu

RELEVANT COURSEWORK

- Analog and Digital Electronics
- Embedded Systems
- Microcontrollers
- Internet of Things
- Wireless Communication
- VLSI Design
- Power Electronics

EXPERIENCE

Altruisty

Machine Learning Intern

December 2024 – February 2025

Chennai, Tamil Nadu

- Built AI-powered tools and automation scripts for machine learning projects using Python and TensorFlow.
- Developed Clustify, an AI customer segmentation platform with 100% accuracy across 12 unique customer categories, deployed online using Flask and Render.
- Implemented chatbot systems and AI automation features for client applications, improving customer engagement by 30%.

Panimalar Engineering College

PCB Design and Development Trainer

March 2025 – Present

Chennai, Tamil Nadu

- Conducted hands-on PCB workshop for 25 students, teaching circuit design, development, and troubleshooting skills.
- Collaborated with engineering faculty to deliver high-quality instructional materials and practical demonstrations.

Infomatronics Project Services

Embedded Systems and IoT Intern

October 2024

Chennai, Tamil Nadu

- Designed and programmed responsive alarm systems using Arduino microcontrollers and C++ programming.
- Integrated Internet of Things hardware modules with mobile interfaces via Kodular platform for remote monitoring capabilities.
- Debugged and optimized electronic circuits to improve system stability and performance by 25%.

Chennai Kulfi (Family Business)

Business Development and Technical Support

April 2020 – Present

Chennai, Tamil Nadu (Part-time)

- Built internal tools, presentation decks, and worked on B2B lead generation pipelines.
- Developed Android applications and automation tools for daily operations, increasing efficiency by 40%.
- Supported factory operations, store setup, event coordination, and stall management.

CK Milk

Freelance Android Application Developer

April 2021 – September 2021

Chennai, Tamil Nadu

- Developed and published mobile application for dairy product e-commerce using Java and Android Studio.
- Implemented shopping cart, order management, and tracking of milk delivery in virtual calendar.
- Successfully launched application on Google Play Store with 100+ downloads.

PROJECTS

[ReframeAI](#) | Python, React, Typescript

May 2025

- Developed and deployed ReframeAI – a cinematic video analysis tool for filmmakers and enthusiasts.
- Built using Python and computer vision techniques to extract visual insights from video files, including shot composition, color palette, and narrative structure.
- The site generates scene-by-scene breakdowns and offer creative feedback for cinematography improvement.
- Enabled intuitive UI for users to upload videos and receive detailed cinematic analysis, supporting formats like MP4 and MOV.

Touch Verify Kiosk - Fingerprint-based Voting System | Python, C++, HTML, CSS, JavaScript

March 2025

- Developed secure electronic voting system using fingerprint authentication and biometric verification.
- Implemented Python for fingerprint recognition on PC and C++ for Arduino Nano microcontroller integration.
- Created LCD display interface and button controls for candidate selection and vote confirmation.
- Developed front-end website integration for fingerprint authentication using HTML, CSS, and JavaScript.

Clustify - AI Customer Segmentation Tool | Python, Flask, Machine Learning, Render

February 2025

- Designed and deployed AI-driven customer segmentation platform using machine learning algorithms.
- Achieved 100% accuracy in customer categorization across 12 unique segments using supervised learning.
- Built web application using Python Flask framework and deployed on Render cloud platform.
- Implemented data visualization and analytics dashboard for business intelligence insights.

CK Milk E-commerce Application | Java, Android Studio, Firebase

September 2021

- Developed and published mobile application for dairy product e-commerce with 100+ active users.
- Built using Java in Android Studio with shopping cart, order management, and user authentication features.
- Integrated Firebase database for real-time data synchronization and cloud storage.
- Successfully published application on Google Play Store with positive user reviews.

TECHNICAL SKILLS

Programming Languages: Python, C++, C, Java, JavaScript, HTML/CSS, Embedded C

Technologies & Frameworks: Machine Learning, Artificial Intelligence, Flask, Firebase, Android Development

Data and AnalyticsData Analysis, Machine Learning, Microsoft Excel, Power BI, Google Sheets, Pandas

Tools & Platforms: Visual Studio Code, Android Studio, Google Colab, GitHub, Render, Vercel, Arduino IDE, Davinci Resolve, F1 Studio, Figma, Canva

Hardware & Electronics: Arduino, Microcontrollers, PCB Design, IoT Systems, Embedded Systems

Additional Skills: Film Making, Music Production, Video Editing, Graphic Design, Project Management

CERTIFICATIONS

Data Acquisition Certification by FutureSkills Prime NASSCOMMay 2024

PCB Debugging and Rework Certification by TANSAM and FlexJanuary 2025

Tata Data Visualisation: Empowering Business with Effective Insights Job by TCSJune 2025

ACHIEVEMENTS

7th International Conference PECTEAM'24March 2024

3rd Place WinnerPanimalar Engineering College

• Won third place for innovative poster presentation on social service application concept.

SBOANZA'22 Cultural FestivalOctober 2022

1st Place WinnerSBOA School and Junior College

• Directed and composed music for winning short film "Meendum Meenduma" at inter-school cultural event.

LEADERSHIP EXPERIENCE

Fruenza'25 Technical SymposiumFebruary 2025

Overall Event CoordinatorPanimalar Engineering College

• Successfully coordinated full-scale technical symposium event with 200+ participants, overseeing team management and participant engagement.

• Managed cross-functional team of 15 members to ensure seamless execution of all event activities.

• Handled budget planning, vendor coordination, and logistics management for the event.

PCB Design WorkshopMarch 2025

PCB Design and Development TrainerPanimalar Engineering College

• Conducted hands-on PCB design workshop for 25 engineering students, teaching industry-standard practices.

• Collaborated with faculty team to deliver comprehensive training materials and practical demonstrations.

• Received excellent feedback from participants with 95% satisfaction rating.