



J.B.INSTITUTE OF ENGINEERING AND TECHNOLOGY

(UGC AUTONOMOUS)

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ORGANIZED BY



TEAM DETAILS

- 1 Selected Track – Ed Tech
- 2 Problem Statement Title – Distraction Free Study Extension-
Smart Focus Assistant For Students
- 3 Team Name - Codebusters
- 4 Team Lead- R.Suzzjal Saeed
- 5 Dept. Name - CSE

IDEA TITLE

Smart Focus — Distraction-Free Study Extension

Detailed Explanation:

A Chrome extension that helps students stay focused during online study sessions by blocking distracting websites, using a Pomodoro-style timer, and tracking study habits.

How it addresses the problem:

- Reduces online distractions.
- Builds discipline through time management.
- Helps identify best focus times using analytics.

Innovation and Uniqueness:

- Combines **website blocking , timer , analytics , motivational design** in one tool.
- Uses **AI/analytics** to suggest optimal study hours.
- Features a **gentle UX** with motivational quotes instead of hard blocking.

TECHNICAL APPROACH

Technologies Used:

- HTML, CSS, JavaScript
- Chrome Extension API (Manifest V3)
- Firebase / Local Storage for data
- Chart.js for analytics visualization
- TensorFlow.js for AI focus predictions

Implementation Methodology:

- **Frontend (Popup & Dashboard):** Built with HTML, CSS, JS
- **Background Service Worker:** Handles website blocking and timer logic
- **Content Script:** Injects motivational overlays on blocked sites
- **Dashboard:** Displays focus analytics using charts

FEASIBILITY AND VIABILITY

Feasibility:

- Fully browser-based; no external software needed.
- Easy to install and run locally or via Chrome Store.

Challenges:

- Managing accurate session data tracking.
- Ensuring AI suggestions are meaningful.

Solutions:

- Use browser storage sync to maintain data consistency.
- Gradual AI feature improvement based on real data.

IMPACT AND BENEFITS

Target Audience:

Students, professionals, and remote workers.

Impact:

- Improves focus and productivity.
- Reduces procrastination and screen fatigue.

Benefits:

- Promotes healthy study habits.
- Offers personal analytics for self-improvement.
- Enhances academic and professional efficiency.

Team Member's Information

Team Leader Name: R. Suzzjal Sae

Year: II Department: CSE Roll Number: 24671A05B8

Team Member 1 Name: K. Charvi Reddy

Year: II Department: CSE Roll Number: 24671A05A0

Team Member 2 Name: Eiman Shakeel

Year: II Department: CSE Roll Number: 24671A0583

Team Member 3 Name: N. Pranay

Year: II Department: CSE Roll Number: 24671A05B0