

Kapil Sunil Bhatia

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EDUCATION

Bachelor of Technology in Computer Engineering

K. J. Somaiya Institute of Technology • Sion, Mumbai • Aggregate CGPI: 9.2 (All 8 Semesters) 04/2025

Higher Secondary Certificate. (HSC)

Hansraj Morarji Public School and Junior College • Andheri, Mumbai • Percentage: 93.33% 04/2021

Secondary School Certificate (SSC)

Bhavans A.H. Wadia High School • Andheri, Mumbai • Percentage: 87.80% 06/2019

INTERNSHIP EXPERIENCE

Mastek Ltd.

04/2025

Interned at Mastek Ltd.'s Innovation Lab-aaS, contributing to AI-driven solutions including fraud detection, intelligent chatbots, and document automation using Python, Flask, Azure OpenAI, and FAISS.

1stop.ai

05/2023

Actively participated in the development of the "Laravel Booking Management System" project, using backend web application development with API integration.

TECHNICAL SKILLS

Azure OpenAI, Bootstrap, C, Canva, CSS, Figma, Flutter, GIS, HTML, Java, JavaScript, Java Swing, Laravel, MS Office, MySQL, PHP, PowerBI, Python.

CERTIFICATIONS

Cloud Foundation Course

AWS Academy

Python and Java Spoken Tutorial

IIT Bombay

AI Hackathon Oracle Service Line

Mastek

Complete Web Development Bootcamp

Udemy (Angela Yu)

PROJECTS

Virtual Lab for Operating Systems

K. J. Somaiya Institute of Technology

Developed an interactive web-based virtual lab to help students understand OS concepts through simulations, quizzes, flowcharts, and code execution. Included email-based login/signup, a discussion forum, and feedback system. Benefited **300+** students across the institute.

Link: vlabcomp.kjsieit.in

Stakeholders Feedback Analysis Portal

K. J. Somaiya Institute of Technology

Designed and deployed a web portal for collecting and analyzing feedback from students, faculty, alumni, and other stakeholders. Integrated with Power BI to visualize **900+** responses using charts and dashboards; used in NBA and NAAC accreditation reports.

Link: feedbackportal.kjsieit.in/new

Student Achievement & OCR Portal

K. J. Somaiya Institute of Technology

Created a portal to streamline certificate submission by students and automate data entry using Optical Character Recognition (OCR). Simplified administration and tracking of student achievements by extracting certificate data directly into structured formats.

IoT-based Water Tank Monitoring System

Mastek Deep Blue Season 8 – Finalist | Aavishkar 2023–24

Built an IoT solution using Arduino UNO WiFi Rev 2 to monitor water parameters (pH, turbidity, temperature, conductivity, and water level). Enabled real-time alerts via SMS to ensure cleanliness and maintenance of overhead tanks. Addressed a civic challenge provided by Mastek.

Housing Society Management System (HSMS)

Client: Moraj Residency, Navi Mumbai

Developed an all-in-one web platform to manage resident records, maintenance collection (via payment gateway), complaints, visitor logs, and rent/renovation applications. Designed for **800+** residents to enhance society operations and transparency.

Link: morajresidency.co.in

LULC Impact on Air Quality in Mumbai

Research Project | GIS + AI Integration
Explored the impact of Land Use Land Cover (LULC) on air quality using hybrid deep learning models on satellite data. Employed SHAP and LIME for interpretability, and used GPR to estimate disease risk from pollutant exposure. Forecasted AQI trends from **2017 to 2035**, highlighting urbanization effects.

COPYRIGHTS

Smart Optical Character Recognition System for Certificate Management Copyright Diary Number: 24397/2024-CO/SW	10/2024
Software of CivicSynergy Streamlining Housing Society Management Copyright Diary Number: 9135/2024-CO/SW	06/2024
User Manual of Virtual Lab of Operating Systems Copyright Diary Number: 24284/2023-CO/L	03/2024
User Manual of KJSIT's Stakeholders Feedback Analysis Portal Copyright Diary Number: 356/2024-CO/L	02/2024

PUBLICATIONS

Enhancing accessibility with long short-term memory-based sign language detection systems Published in Scopus-indexed IAES International Journal of Artificial Intelligence (IJ-AI) Click here	04/2025
Virtual Simulations Tool for Operating Systems: Advancing E-Learning in Computing Education Publication in Scopus-indexed Journal of Information Technology Education: Innovations in Practice (JITE:IIP) Click here	11/2024
Data Dynamics in Focus: Stakeholders Feedback Analysis and Interpretation Publication in Scopus-indexed International Conference on Emerging Innovations and Advanced Computing (INNOCOMP 2024) Click here.	05/2024
Empowering Communities: Smart Technologies for Housing Society Governance Published in UGC CARE recognized South India Journal of Social Sciences (in Print Mode) Click here.	05/2024

AWARDS & ACCOLADES

Special Prize Awardee for developing CivicSynergy Streamlining Housing Society Management System in INTECH 2K24 Institution of Engineering and Technology (IET) Mumbai Local Network and K. J. Somaiya Institute of Technology	02/2024
Student Champion of the Year Institution of Engineering and Technology (IET)	12/2023
Letter of Appreciation for developing websites Virtual Lab of Operating Systems; KJSIT's Stakeholders Feedback Analysis Portal; CivicSynergy: Streamlining Housing Society Management System; and conducting the session titled “From Concept to Deployment: Building Scalable Applications” for second-year engineering students K. J. Somaiya Institute of Technology, Sion, Mumbai	10/2023
Topped the class XII in my college – Board Examination Hansraj Morarji Public School and Junior College	06/2021

VOLUNTEERING & LEADERSHIP

Institution of Engineering and Technology (IET) & K. J. Somaiya Institute of Technology Vice Chairperson • Mumbai	06/2024
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