

# ABU JABAR MUBARAK

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[github.com/abujabarmubarak](https://github.com/abujabarmubarak)

## Personal Details

**Career Interest:** Software Development Engineer (SDE), Backend Engineering, Frontend Development

**Marital Status:** Unmarried

**Languages Known:** English, Tamil, Arabic (Reading and Writing)

**Willingness to Relocate:** Yes

## Education

**Mohamed Sathak A.J. College of Engineering**

**Oct. 2022 – May 2026**

*Bachelor of Technology in Computer Science and Business System*

*Chennai, Tamil Nadu*

## Relevant Coursework

- Data Structures
- Software Engineering
- Algorithms Analysis
- Database Management System
- Artificial Intelligence
- Internet of Things
- Computer Network
- Machine Learning
- Object Oriented Programming

## Projects

**Pandemic Death Prediction** | *Python, Kaggle, Google Cloud Console*

**January 2021**

- **Objective:** Predict the number of deaths during a widespread pandemic to aid in resource planning and distribution.
- **Context:** During the peak of the Covid-19 pandemic, the healthcare system in India was heavily overburdened. Accurate predictions of case numbers can help mitigate resource shortages.
- **Dataset:** Covid-19 case records in various Indian states from January 2020 to August 2021, including numbers of cured patients and deaths.
- **Outcome:** Designed and implemented a predictive system using AI to forecast pandemic-related deaths, demonstrating expertise in scalable, distributed systems and high-quality software development.
- Led a team of 5 to build an innovative solution using GenAI for data-driven prediction, ensuring accuracy and performance.
- Focused on patience and team onboarding during tight timelines, showcasing adept communication and influence.
- Utilized Python, Pandas, and visualization libraries to chart trends and index high-risk patterns.

**Self Balancing Robot** | *C, Embedded System, Arduino IDE*

**January 2024**

- **Technologies:** C, Embedded System, Arduino IDE.
- **Objective:** Design and build a robot capable of maintaining balance autonomously.
- **Methodology:** Utilized sensors and control algorithms to achieve real-time balancing.
- **Outcome:** Successfully developed and programmed the robot, demonstrating proficiency in embedded systems and real-time control applications.
- Worked in an agile environment to design and debug fault-tolerant control mechanisms using real-time sensor data.
- **GitHub Repo:** [github.com/abujabarmubarak/self-balancing-bot](https://github.com/abujabarmubarak/self-balancing-bot)

**Result Publishing Portal for College** | *HTML, CSS, JavaScript, Python, PostgreSQL*

**February 2025**

- **Objective:** Develop an online portal for securely publishing and accessing student examination results.
- **Features:** Role-based access for admins, faculty, and students; secure result upload and retrieval; responsive user interface.
- **Technologies:** Frontend built using HTML, CSS, JavaScript; backend powered by Python; data stored in PostgreSQL.
- **Outcome:** Deployed as a live system at Mohamed Sathak A J College of Engineering; actively used by 1500+ students to view their results securely.
- Designed and deployed a multi-tiered web application architecture with a relational database backend, ensuring scalability and ease of use.
- **GitHub Repo:** [github.com/abujabarmubarak/result-management-system](https://github.com/abujabarmubarak/result-management-system)    **Live Site:** [results.msajce-edu.in](https://results.msajce-edu.in)

**Gesture Mouse Control using Hand Gestures** | *Python, MediaPipe, PyAutoGUI*

**March 2025**

- **Objective:** Built a hand gesture-controlled mouse interface for performing left click, right click, double click, and screenshot actions.
- **Methodology:** Utilized real-time hand tracking using MediaPipe and automated input control using PyAutoGUI.
- **Features:** Touchless control of mouse actions using hand gestures detected via webcam.
- **GitHub Repo:** [github.com/abujabarmubarak/gesture\\_mouse\\_control](https://github.com/abujabarmubarak/gesture_mouse_control)

## Experience

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### Internship at Mohamed Sathak A J College of Engineering | *Web Development, Result Portal* February 2025

- **Objective:** Developed and published a web-based Result Publishing Portal for the college to streamline exam result announcements.
- **Context:** The manual process of result distribution was time-consuming and error-prone, necessitating a digital solution.
- **Tools/Tech Stack:** Web technologies (HTML, CSS, JS), backend scripting, and database integration.
- **Outcome:** Successfully deployed a user-friendly and secure portal, enhancing administrative efficiency and student accessibility.

### Data Science Internship at Main Flow Pvt. Ltd | *Python, Data Analysis, ML* December 2024

- **Objective:** Analyzed client business data using sales trends to derive insights and support decision-making.
- **Context:** Businesses needed to optimize their operations using historical and transactional sales data.
- **Tools/Tech Stack:** Python, Pandas, Matplotlib, Scikit-learn.
- **Outcome:** Built data-driven models that improved sales forecasting accuracy and client reporting efficiency.
- Articulated technical challenges and abstracted business requirements into actionable machine learning models.

## Technical Skills

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**Languages:** Python, Java, C, SQL, HTML, CSS, Tailwind CSS, Bootstrap, JavaScript, AngularJS, Three.js

**Framework:** React.JS, Express.JS, Node.JS, React Native, REST APIs

**Tools:** Excel, Power BI, VS Code, Eclipse, Google Cloud Platform, Android Studio, Arduino IDE, CoppeliaSim

**Databases:** MongoDB, PostgreSQL, Indexing, Query Optimization, Data Storage, Metadata Management Systems

**Cutting Edge Technology:** GenAI, NLP, LLMs, Distributed Storage Systems

**Mathematics:** Linear Programming, Nonlinear Optimization, Algorithms

**SAP:** ABAP, BASIS, HANA, FIORI, UI5, Business Processes (Procurement to Pay, Order to Cash), Modules (FICO, MM, SD)

**Soft Skills:** Patience, Creating Influence, Adept Communication, Interview Preparation, Focus

**Others:** Talent Acquisition, Onboarding, University Recruiting, Market Research, Product Development **Concepts:** Object-Oriented Design, Data Structures and Algorithms, Time and Space Complexity Analysis, Debugging, Distributed Systems, Fault-Tolerant Systems, Optimization, Multi-tiered Architecture, Relational Databases, Agile Methodologies, Problem Solving, Abstract Thinking

## Leadership / Extracurricular

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### Google Student Ambassador (GDSC) Aug 2024 – Present *Campus Lead* *Google*

- **Role:** Selected as the campus lead to represent Google's developer technologies and foster a developer community.
- **Responsibilities:**
  - \* Host and organize workshops, tech talks, and bootcamps on Google technologies (e.g., Android, Firebase, Google Cloud).
  - \* Mentor fellow students and guide them in participating in Google-sponsored events and competitions.
- **Outcome:** Grew the campus developer community, helping students learn new skills and build projects.

### Computer Society of India (CSI) Chapter, College Sep 2023 – Present *Secretary* *Mohamed Sathak A J College of Engineering*

- **Role:** Appointed as Secretary of the CSI Student Chapter, responsible for organizing technical events and promoting computing culture within the institution.
- **Responsibilities:**
  - \* Coordinated workshops, coding contests, and guest lectures to enhance student engagement in technical fields.
  - \* Collaborated with faculty and external speakers to ensure smooth event planning and execution.
  - \* Maintained communication between student members and CSI regional office.
- **Outcome:** Strengthened student participation in CSI activities and contributed to a vibrant tech community on campus.

### Organizing Head – Sathak-a-Thon (National Level 24-Hour Hackathon) 2023 *Organizing Head* *Mohamed Sathak A J College of Engineering*

- Led the entire coordination and execution of the 24-hour national-level hackathon "Sathak-a-Thon".
- Managed 300+ participants, event scheduling, judging panels, and logistics.
- Ensured smooth progression of the event across multiple technical tracks.

## Competition Achievement

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### First Prize, Shaastra Techathon – AI/ML Challenge

Oct 2023 – Mar 2024

*Team Leader*

*IIT Madras*

- **Overview:** Participated in a prestigious national-level AI/ML hackathon open to data scientists and students across India.
- **Objective:** Predicted the number of deaths during a widespread pandemic to assist in effective healthcare planning and resource allocation.
- **Dataset:** Covid-19 case records from various Indian states (Jan 2020 – Aug 2021), including numbers of cured patients and deaths.
- **Role:** Led the team in designing and implementing the predictive model using machine learning techniques.
- **Outcome:** Secured **1st prize out of 150 teams**, showcasing excellence in AI/ML application, leadership, and real-world problem solving.

## Non-Technical Skills

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- Team Leadership
- Project Management
- Problem Solving
- Communication
- Time Management
- Collaboration
- Adaptability

## Conclusion

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As a highly motivated Computer Science and Business Systems student with a CGPA of 9.02 and a proven track record of leadership and innovation, I am excited about the opportunity to contribute to Amazon's Software Development team. My experience includes developing distributed, fault-tolerant, and scalable systems, winning the Shaastra Techathon Challenge with a predictive AI/ML model, and working in agile environments during internships. With strong programming skills in Python, Java, and C++, and a passion for solving complex, ambiguous problems, I am eager to contribute to Amazon's mission of customer obsession and innovation.