

# PRASANNA S

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## SUMMARY

Final-year Biomedical Engineering student with a unique blend of healthcare technology expertise and full-stack development skills. Proven track-record in developing IoT-driven medical devices and autonomous systems. National level hackathon participant and NCC C-Certificate holder with a strong foundation in C++, Java, and Web Technologies.

## EXPERIENCE

<b>Biomedical Intern   KV's Biomedical, Chennai</b>	<b>April 2025 - May 2025</b>
<ul style="list-style-type: none"><li>Gained hands-on experience in medical equipment maintenance and hospital-grade technology workflows.</li><li>Assisted in troubleshooting and understanding the lifecycle of clinical diagnostic tools.</li></ul>	

## PROJECTS

<b>Brain-Computer Interface (BCI) System</b>	<b>NOV 2025</b>
<ul style="list-style-type: none"><li>Engineered a system for neural signal analysis to bridge human cognition with external hardware.</li></ul>	
<b>SIH 2025 - SmartShield (IoT Gas Detection System)</b>	<b>DEC 2-025</b>
<ul style="list-style-type: none"><li>Designed a manhole gas neutralizing and alert system for worker safety.</li><li>Achievement: Selected up to Round 2 of Smart India Hackathon 2025.</li></ul>	
<b>CONSCIENTIA 2025 ,IIST- Autonomous Robotics Maze Solver &amp; Line Follower</b>	<b>SEPT 2025</b>
<ul style="list-style-type: none"><li>Built an IR sensor-based robot. Won 1st Prize in Maze Solver.</li><li>Line Follower: Developed an autonomous robot using microcontrollers for path-tracking.</li></ul>	
<b>Luminalens (Smartphone-Integrated Ophthalmoscope),SIC 26</b>	<b>FEB2026</b>
<ul style="list-style-type: none"><li>Developed a portable diagnostic solution to image the posterior segment of the eye using smartphone optics.</li></ul>	

## EDUCATION

<b>B.E. in Biomedical Engineering</b>	<b>2023 – 2027</b>
Bannari Amman Institute of Technology	
<ul style="list-style-type: none"><li>CGPA: 7.56/10.0</li><li>Focus: IoT Healthcare devices, Embedded Systems, Circuit Design.</li></ul>	
<b>Higher Secondary (Class XII)</b>	<b>2021-2023</b>
T.N.S.S Gandhi Vidhyalaya Matric Hr. Sec.School	
<ul style="list-style-type: none"><li>Score: 91% (Biology Excellence: 99/100)</li></ul>	

## ADDITIONAL INFORMATION

- Technical Skills:** C, C++, Java, Python, HTML, CSS,Frontend Fundamentals,IoT.
- Languages:** English, Tamil.
- Certifications:** Biomedical Intern(KVs Biomedical),NCC 'B' &'C' certificates.
- Activities:**Active memner in NCC,Volley Ball player & event Organizer.

## DECLARATION

- I **Prasanna**, declare that all the details provided above are true to the best of my knowledge