

# PREM B

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## EXPERIENCE

<b>Machine Learning Engineer Intern</b> <i>Google Developers</i>	<b>(Apr 2025 - May 2025)</b> <i>Virtual</i>
<ul style="list-style-type: none"><li>Cleaned &amp; normalized 8 large datasets, uncovering 12% more relevant content trends for stakeholders.</li><li>Developed a Dash visualization suite that reduced stakeholder analysis time by 30%.</li><li>Produced a 20-slide technical report &amp; 10-minute video walkthrough adopted by 3 global teams.</li></ul>	
<b>Software Engineer Intern</b> <i>ISRO ISTRAC</i>	<b>(Jan 2025 - Feb 2025)</b> <i>Bengaluru</i>
<ul style="list-style-type: none"><li>Engineered a real-time telemetry dashboard (Flask + SQL) for space launch data, reducing data latency from 5 s to 2 s.</li><li>Automated binary-to-JSON ingestion &amp; dynamic query filtering, slashing data-prep labor by 60%.</li><li>Integrated ELK for centralized logging, improving error-investigation speed by 40%.</li></ul>	
<b>AI and Robotics Intern</b> <i>ISRO SDSC</i>	<b>(Sep 2024 - Oct 2024)</b> <i>Sriharikota</i>
<ul style="list-style-type: none"><li>Designed and simulated robotic-arm workflows in PyBullet + OpenCV, achieving a 92% pick-and-place success rate.</li><li>Trained reinforcement-learning agents (PPO &amp; DQN), improving assembly precision by 15%.</li><li>Documented system architecture and delivered training to a 5-member team.</li></ul>	

## EDUCATION

<b>Bharath Institute of Higher Education and Research</b> <i>Bachelor of Technology (B.Tech) Computer Science and Engineering</i>	<b>2022 – Present</b> <i>Chennai</i>
<ul style="list-style-type: none"><li>GPA: 8.81</li></ul>	
<b>St. Vincent's Mat. High. Sec. School</b> <i>HSC – 12th</i>	<b>2021 – 2022</b> <i>Chennai</i>
<ul style="list-style-type: none"><li>Score: 74.5%</li></ul>	
<b>St. Vincent's Mat. High. Sec. School</b> <i>SSLC – 10th</i>	<b>2019 – 2020</b> <i>Chennai</i>
<ul style="list-style-type: none"><li>Score: 81.6%</li></ul>	

## TECHNICAL SKILLS

<b>Programming Languages:</b> Python (Advanced), JavaScript, Java, SQL
<b>Web &amp; Full-Stack:</b> Flask, Dash, RESTful APIs, HTML/CSS, UDP, Real-time Data Acquisition
<b>AI/ML &amp; Data Analytics:</b> TensorFlow, PyTorch, Scikit-learn, OpenCV, Pandas, Matplotlib, CNNs, RNNs, Reinforcement Learning
<b>DevOps &amp; Cloud:</b> AWS Cloud, CI/CD (GitHub Actions), Virtual Environments, ELK Stack

## ADDITIONAL

**Languages:** Tamil (Native), English (Fluent), Hindi (Proficient), Japanese (Basic)