Prem B

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EXPERIENCE

Machine Learning Engineer Intern   **(Apr 2025 - May 2025)**
Google Developers   *Virtual*
- Cleaned & normalized 8 large datasets, uncovering 12% more relevant content trends for stakeholders.
- Developed a Dash visualization suite that reduced stakeholder analysis time by 30%.
- Produced a 20-slide technical report & 10-minute video walkthrough adopted by 3 global teams.

Software Engineer Intern   **(Jan 2025 - Feb 2025)**
ISRO ISTRAC   *Bengaluru*
- Engineered a real-time telemetry dashboard (Flask + SQL) for space launch data, reducing data latency from 5 s to 2 s.
- Automated binary-to-JSON ingestion & dynamic query filtering, slashing data-prep labor by 60%.
- Integrated ELK for centralized logging, improving error-investigation speed by 40%.

AI and Robotics Intern   **(Sep 2024 - Oct 2024)**
ISRO SDSC   *Sriharikota*
- Designed and simulated robotic-arm workflows in PyBullet + OpenCV, achieving a 92% pick-and-place success rate.
- Trained reinforcement-learning agents (PPO & DQN), improving assembly precision by 15%.
- Documented system architecture and delivered training to a 5-member team.

EDUCATION

Bharath Institute of Higher Education and Research   **2022 – Present**
Bachelor of Technology (B.Tech) Computer Science and Engineering   *Chennai*
- GPA: 8.81

St. Vincent's Mat. High. Sec. School   **2021 – 2022**
HSC – 12th   *Chennai*
- Score: 74.5%

St. Vincent's Mat. High. Sec. School   **2019 – 2020**
SSLC – 10th   *Chennai*
- Score: 81.6%

TECHNICAL SKILLS

Programming Languages: Python (Advanced), JavaScript, Java, SQL

Web & Full-Stack: Flask, Dash, RESTful APIs, HTML/CSS, UDP, Real-time Data Acquisition

AI/ML & Data Analytics: TensorFlow, PyTorch, Scikit-learn, OpenCV, Pandas, Matplotlib, CNNs, RNNs, Reinforcement Learning

DevOps & Cloud: AWS Cloud, CI/CD (GitHub Actions), Virtual Environments, ELK Stack

ADDITIONAL

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