Here's a summary of the internship report in bullet points:

\*\*Company Overview:\*\*

\* Company Name: PV Clean Mobility Technologies Pvt. Ltd.

\* Focus: Clean and sustainable mobility solutions

\* Mission: Promote green technology by introducing advanced and reliable components for electric vehicles

\*\*Internship Objectives:\*\*

\* Gain hands-on experience in sensor design and prototyping

\* Understand the working and integration of Hall Effect ICs in fuel sensing applications

\* Assist in the testing and development of 3D printed prototypes using FDM

\* Document findings and prepare technical reports for R&D purposes

\*\*Project Highlights:\*\*

\* Developed a hall effect IC-based fuel level sensor for use in electric vehicles

\* Explored sensor design considerations, including IC selection, magnet placement, and float material

\* Conducted prototyping and testing of the sensor using 3D printing and microcontroller interfacing

\* Verified output using simulated fuel tanks with different fuel levels and calibrated sensor for non-linear tank geometries