TRANSPORT STACK

DELHI, 2026

Transport Stack Hackathon

Five challenges on real Delhi transit data: live bus GPS, e-ticketing, ETM and metro AFC records. Build open-source tools for the city's buses and metro.

₹2,75,000	20 Nov	11 Dec
in prizes	Registration closes, 23:59 IST	Finale at IIIT-Delhi

TWO WEEKS · ONLINE

Phase 1: Prototype

Proposal and working prototype on Problem 1 or 2.

TWO WEEKS · SHORTLISTED TEAMS

Phase 2: Mentored build

Refine your Phase 1 work or take on Problem 3, 4 or 5, with weekly mentor check-ins.

11 DECEMBER 2026

Finale

Phase 2 solutions are presented and judged live at the Transport Stack annual event.

PHASE 1 PROBLEMS

01

Bus traffic model + journey planner

Use live and historical bus GPS as a city-wide traffic sensor. Build a Google Maps-like API for bus travel times between any two points.

Bus GPS / Travel time / Routing API

02

Crowdedness-aware journey planner

Estimate how full buses are by route and hour from 4–5 weeks of ticketing data, and let commuters choose trips by time and comfort.

ETM / E-ticketing / Journey planning

PHASE 2 PROBLEMS

03

Public transit OD matrix

Scale a 3–4% bus e-ticket sample, anchored by metro gate data, into a city-wide origin–destination matrix.

Demand / Metro gates

04

Metro feeder bus routes

Plan routes for ~500 electric buses across metro stations. Max 7 km, traffic-aware, wide roads only, charging included.

EV fleet / Optimisation

05

Metro and bus crowding

Turn a month of AFC boarding and alighting records into on-board load by segment and hour.

AFC / Load

delhi.transportstack.in/hackathon

Scan to register

Students, researchers and developers welcome