Bablu Kumar Patel

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Professional Summary

GATE-qualified Transportation Engineering M.Tech student from NIT Warangal with a focus on pavement analysis and design. Proficient in applying machine learning models to predict asphalt concrete stability, with hands-on experience from a PWD internship. Eager to contribute to sustainable infrastructure projects by leveraging strong technical skills in materials testing and project management.

Education

Master of Technology, Transportation Engineering

National Institute of Technology (NIT), Warangal

Expected July 2027

Bachelor of Technology, Civil Engineering

Rajkiya Engineering College, Azamgarh

Nov 2021 – July 2025

Academic Distinctions: Secured 92.6% in Class 12th and 94% in Class 10th C.B.S.E. Boards.

Work Experience

- Summer Intern | Public Works Department (PWD) Gorakhpur
  - July 2024 – Aug 2024
  - Completed a four-week field exposure program focused on public works projects.
  - Assisted in surveying activities including leveling, traversing, and cross-section preparation for road alignment.
  - Observed and supported quality control of construction materials, including soil sample collection, testing, and pavement layer inspection.

Technical Skills

- **Civil Engineering Software:** STAAD Pro (Structural Analysis & Design), AutoCAD (2D Drafting & Detailing)

- **Project & Data Tools:** Microsoft Project (Project Planning & Scheduling), MS Excel (Data Analysis & Calculations) and IBM SPSS.

- **Laboratory & Materials Testing:** Marshall Stability Testing, Asphalt Mix Design, Aggregate & Concrete Testing.

Projects

- **Machine Learning Based Prediction of Marshall Stability of Waste Modified Asphalt Concrete**
  B.Tech Final Year Project | 2024–2025

- Analysed the impact of Sugarcane Bagasse Ash and Reclaimed Aggregates to evaluate their potential as sustainable alternatives in asphalt concrete.
- Conducted Marshall Stability tests and applied machine learning models for prediction.
- Highlighted sustainable pavement design using waste-modified asphalt mixtures.

Core Competencies

- **Transportation Engineering:** Pavement Design, Traffic Engineering, Highway Planning
- **Materials & Pavement Testing:** Asphalt Concrete, Marshall Stability, Waste-Modified Pavement

Certifications & Workshops

- Developing Soft Skills and Personality (NPTEL)
- Enhancing Soft Skills and Personality (NPTEL)
- AutoCAD-2D (Workshop) by Learn Delta

Achievements

- **GATE 2025 Qualified (Civil Engineering):** Successfully qualified in the national-level Graduate Aptitude Test in Engineering, a benchmark for postgraduate admissions in India.

Language

- **English:** Fluent
- **Hindi:** Native