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Department of Computer Science & Engineering

A Project Report On

**“VSPN- VANET BASED SECURE AND PRIVACY PRESERVING
NAVIGATION”**

**A Dissertation submitted in the department of computer science & Engineering of
Visvesvaraya Technological University, Belagavi in partial fulfilment for the award of
the Degree in Bachelor of Engineering.**

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ABSTRACT

In this project, we propose a navigation scheme that utilizes the online road information collected by a vehicular ad hoc network (VANET) to guide the drivers to desired destinations in a real-time and distributed manner. The proposed scheme has the advantage of using real-time road conditions to compute a better route and at the same time, the information source can be properly authenticated. To protect the privacy of the drivers, the query (destination) and the driver who issues the query are guaranteed to be unlinkable to any party including the trusted authority. We make use of the idea of anonymous credential to achieve this goal. In addition to authentication and privacy preserving, our scheme fulfills all other necessary security requirements.