Intelligent Tourist Travel Planner

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***Abstract*—**
***Index Terms*—tourism,itinerary.**

I. Introduction

A. Problem Definition

Producing an itinerary before a trip can be a demanding task which requires a substantial amount of research. Many times people rely on travel books, individual travel blogs and online websites to form a holiday plan, but these are not tailored according to other traveller's preferences and opinions [1].

An adequate automated trip planner application would consist of two parts, data retrieval based on the end-users and a generated itinerary. Numerous systems are available and therefore building a working prototype is both possible and feasible [1]–[11]. Although these systems automate the process of producing the itinerary, they require a lot of end-user data and preferences to form a personalised itinerary. Can the user preference gathering be automated?

Given the amount of information a single user holds online, it is possible to automate and help the process of gathering personal preferences [12]. A deep learning model could be trained to classify a person's social media profile to determine what the user wants from a trip. This information alongside other parameters such as the user's budget and trip length could give out a very accurate personalised holiday plan.

B. Motivation

C. Why the Problem is non-trivial

II. Background Research and Literature Review

The following subsections describe automatic itinerary generator systems both from research papers and those avaiable on the market.

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