AI Powered Topic Finder for Academic Project

Bhagyashree Kambhare[1], Yamini Laxane[2], Sayali Milind Ambade[3], Shrutika Mukund Bhalme[4]

HOD and Professor, Department of MCA[1,2]

Students, Department of MCA[3,4]

Smt Radhikatai Pandav College of Engineering, Nagpur, Maharashtra

Abstract: *Inside the space of insightful and proficient enhancement, choosing the proper wander subject is frequently the essential and most fundamental step toward triumph. In any case, the overwhelming abundance of information and the speedy pace of imaginative change have made it dynamically troublesome for understudies and engineers to recognize critical, creative, and doable ex-tend contemplations. To address this challenge, AI-Powered Wander Subject Pioneer rises as a sharp web-based course of action, made utilizing the Django framework, pointed at unravelling and overhauling the ideation handle through fake experiences. Thought Circle handles the control of machine learning (ML) and ordinary tongue dealing with (NLP) to dissect client preferences, space interface, and current around the world designs in advancement. By collecting client inputs such as educational level, region of charmed (e.g., Web Headway, Data Science, IoT, Cybersecurity, etc.), and specific catchphrases, the system produces customized wander proposals that are both noteworthy and innovative. It planning with out-side APIs like Google Designs, GitHub, and arrive to alter recommendations with current industry and ask approximately headways, ensuring that the proposed considerations are helpful and reasonable. At its middle, the application is fuelled by Python and Django, promoting a secure and versatile backend establishment. It handles client organization, stores slants, and shapes data through facilitates AI models. The frontend, sketched out utilizing Django designs or then again with ad-vanced JavaScript libraries, gives a reliable and user-friendly interface for thought examination and documentation. Clients can browse through AI-suggested titles, see brief portrayals, and send out chosen topics in conjunction with abstracts, pro-posed rebellious, and frameworks in PDF or substance organize for academic utilize or wander recommendation. The arrange besides offers additional highlights such as categorization by inconvenience level, collaboration-based proposition, and nonstop learning from client brilliantly, in this way advancing the proposition engine over time. Whether for final year wanders, hackathons, ask approximately exercises, or capable progression, acts as a personalized ideation partner that boosts creative energy though sparing time. In conclusion, Idea Sphere is more than a venture subject generator it might be a comprehensive, brilliantly arrange that engages clients to change over questionable interface into well-defined, noteworthy wander considerations. By combining AI advances with the Django web framework, the system outlines the real-world potential of fake experiences in academic back frameworks and adroit decision-making devices.*

Keywords: Artificial Intelligence (AI), Machine Learning (ML), Natural Language Processing (NLP), Project Topic Recommendation, Django Web Framework, Personalized Suggestions, Educational Technology, Smart Idea-tion Tool, Web Based Application, GitHub Integration, Google Trends API, Academic Project Planning, AI Powered Assis-tant, Intelligent Recommendation System