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(54) Title of the invention : AN INTERACTIVE ELECTION DATA ANALYTICS AND VISUALIZATION SYSTEM USING POWER BI

<p>(51) International classification :G06F0016840000, G06F0011300000, G06F0016250000, G06F0016260000, G06F0016245800</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY Address of Applicant :19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA Gautam Buddha Nagar ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)CHANDRAKANT MOHANTY Address of Applicant :NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY, 19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA Gautam Buddha Nagar ----- 2)AAYUSH MISHRA Address of Applicant :NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY, 19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA Gautam Buddha Nagar ----- 3)RANU KUMAR Address of Applicant :NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY, 19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA Gautam Buddha Nagar ----- 4)GARIMA JAIN Address of Applicant :NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY, 19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA Gautam Buddha Nagar -----</p>
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(57) Abstract :
Disclosed herein is an interactive election data analytics and visualization system using power BI (100) comprises a data acquisition module (102) configured to extract structured and semi-structured election-related datasets. The system also includes a data transformation engine (104) handling inconsistent data formats, resolving missing values, and aligning data schema. The system also includes a Power BI-based visualization environment (106) configured to host interactive dashboards. The system also includes a DAX-based computational layer (108) using Data Analysis Expressions for generating derived metrics. The system also includes a user interface unit (110) configured for real-time filtering, drill-down analysis, and cross-data comparison. The system also includes a web-hosted publishing and embedding module (112) adapted to deploy the interactive dashboards over the internet.

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