**1. Introduction:**

Discuss the growing importance of AI/ML in industries.

State the project objectives.

* transformative impact on various sectors
* contribute to solving complex problems

**2. Industry Trends:**

Review AI/ML trends in industries.

* Edge computing
* Healthcare
* Cybersecurity
* Generative creativity

**3. Data Collection:**

Identify data sources, including BLS and industry reports.

Define variables to collect.

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**4. Data Analysis:**

Analyze BLS data for ML/AI growth areas.

Explore productivity metrics.

Examine the relationship between AI/ML adoption and productivity. (Regression Analysis)

**5. Industry Profiling:**

Top Industries for AI/ML

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**6. Historical Trends:**

Change Over Time:

**7. Productivity:**

Analysis of Productivity

**8. Salary:**

Analyze salary trends for AI/ML professionals.

Explore the correlation between education, experience, and salary.

**9. Conclusion:**

Findings/Implications

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**General Notes:**

Employment Trends:

* + Total employment in the IT sector.
  + Employment trends over the specified time period.
  + Growth rates in different IT occupations.
* Wages and Earnings:
  + Median and average wages in the IT sector.
  + Comparison of IT wages with other industries.
  + Wage growth trends over time.
* Demographic Analysis:
  + Gender, age, and ethnicity distribution in IT occupations.
  + Changes in demographic trends over the years.
  + Disparities in employment and wages among different demographic groups.
* Education and Qualifications:
  + Education levels and qualifications of individuals in IT occupations.
  + Trends in educational requirements over time.
  + Relationship between education and earnings in the IT sector.
* Job Openings and Turnover:
  + Number of job openings in the IT sector.
  + Job turnover rates and reasons for turnover.
  + Analysis of skills in demand based on job openings.
* Occupational Projections:
  + Employment projections for specific IT occupations.
  + Growth rates and projections for the IT sector as a whole.
  + Comparisons with other industries in terms of future outlook.
* Labor Force Statistics:
  + Unemployment rates in the IT sector.
  + Labor force participation rates.
  + Employment-population ratios for IT occupations.
* Geographic Analysis:
  + Regional variations in IT employment and wages.
  + Concentration of IT jobs in specific locations.
  + Changes in geographic distribution over time.
* Automation and AI Impact:
  + Analysis of jobs that are more susceptible to automation.
  + Identification of skills and roles likely to be augmented by AI.
  + Comparison of growth in AI-related occupations.
* Industry-Specific Data:
  + Breakdown of IT employment by industry.
  + Analysis of IT growth in specific sectors (e.g., healthcare, finance).
* Comparison with White House Report on AI:
  + Key findings and insights from the White House report on AI.
  + Alignment of your data analysis with the report's predictions.
* Job Satisfaction and Retention:
  + Surveys or data related to job satisfaction in IT.
  + Retention rates and factors influencing employee retention.