

AI insights in job markets

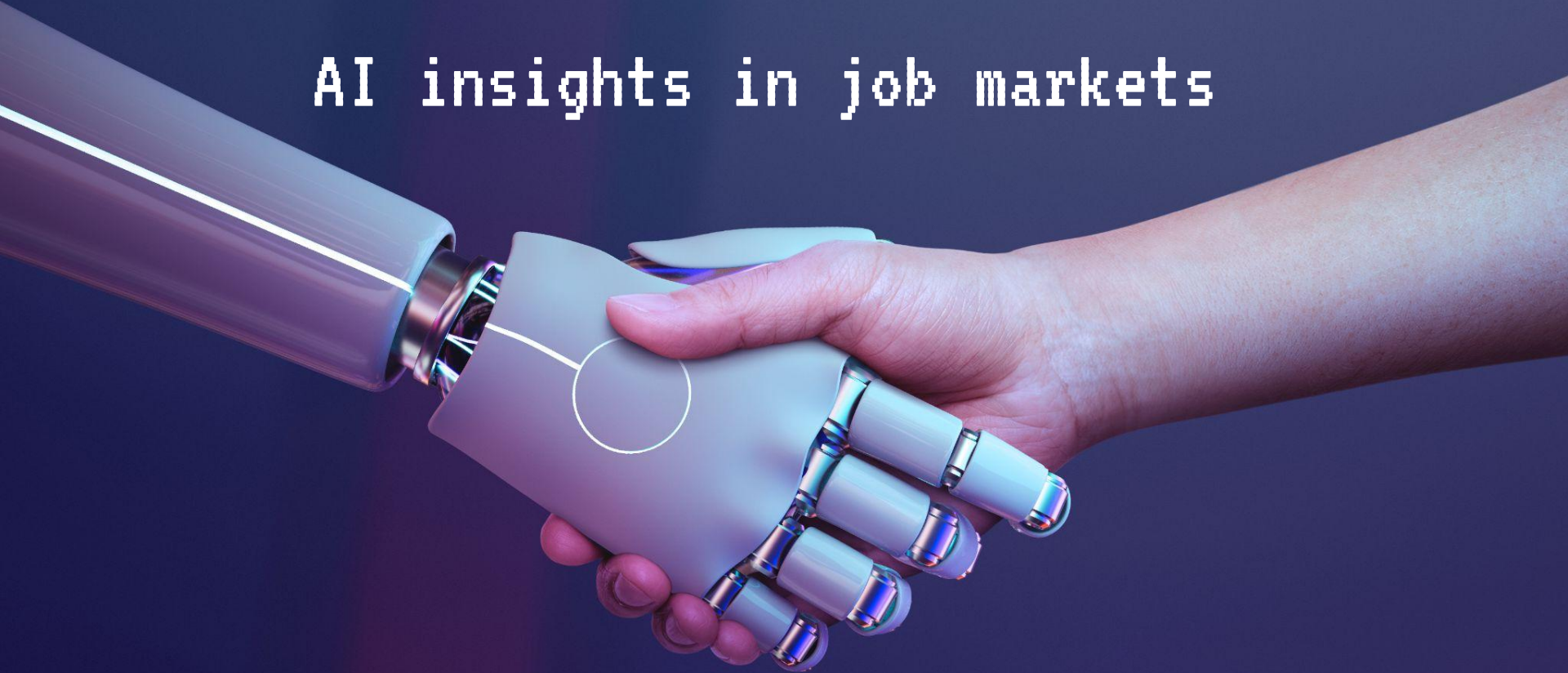




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Team :

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Junior Computer Science student at Benha
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Second level Computer Science
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02 Project idea & Objectives



Defining the Vision: What the AI Dashboard Will Achieve



Research Question

What are the actual measurable effects of AI on:

- Job creation vs job displacement
- Automation risk and productivity
- Skill requirements and career progression
- Business performance and employment growth?



Why this matters?

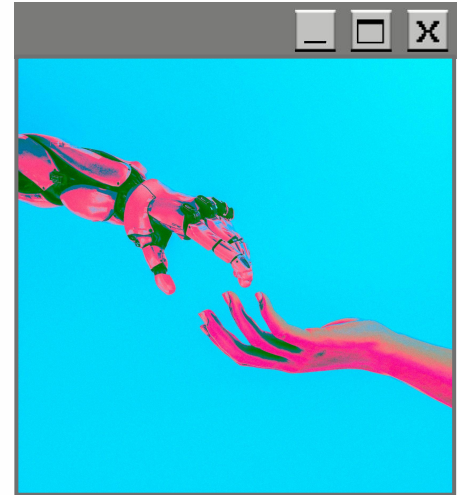
Everyone says “AI will change everything” – but by how much, where, and for whom?

This dashboard uses real-world data to move the conversation from fear and hype to facts.

Objective of this capstone project

Build a fully interactive Power BI dashboard that quantifies the short- and medium-term effects of AI across millions of jobs and thousands of companies.

03 Process of development



From Concept to Curation: The Development Lifecycle



The development process

01 Sourcing

Using AI Models.

02 Preparation

Cleaned and transformed data
using Power Query.

03 Analysis

Built the data model and
visualized insights in Power
BI.

04 Final stage

Finalized project reporting
in Microsoft Word.

power query



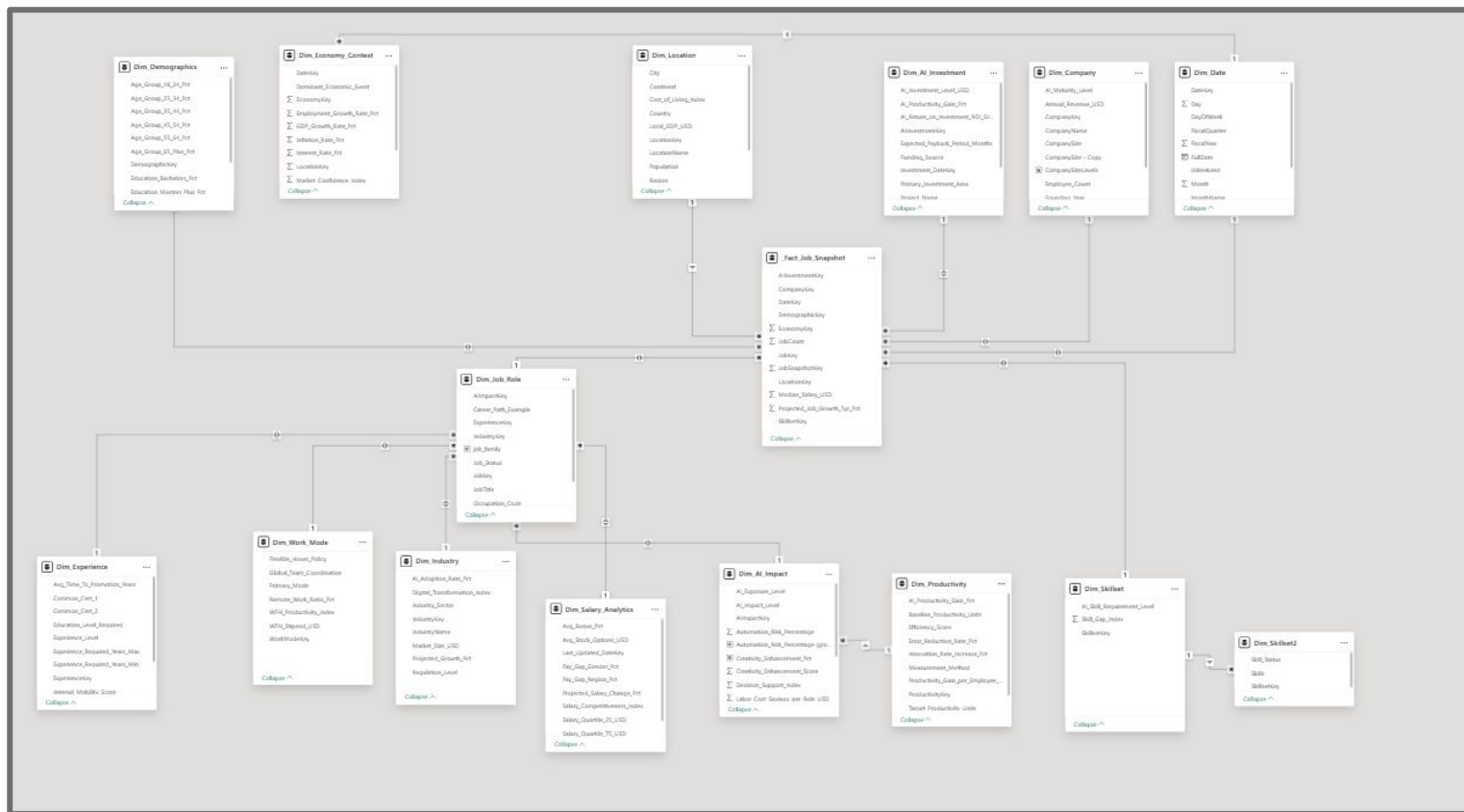
The image displays three overlapping screenshots of the Microsoft Power Query Editor interface, illustrating various data transformation steps.

Top Screenshot: Shows the 'Remove Columns' step. The query is named 'Table.RemoveColumns(*Filtered Rows, ("Not_Decking_Policy"))'. The data table has columns: WorkModality, Remote_Work_Ratio_Pct, Primary_Mode, Flexible_Hours_Policy, Global_Team_Coordination, and Work_Productivity_Index. The 'Query Settings' pane on the right shows the 'APPLIED STEPS' list with 'Removed Columns1' selected.

Bottom Left Screenshot: Shows the 'Remove Columns' step. The query is named 'Table.RemoveColumns(*Removed Columns1, ("ATP1Subte.1", "Skill1_Status"))'. The data table has columns: SkillModality, Skill_Status, and Skills. The 'Query Settings' pane on the right shows the 'APPLIED STEPS' list with 'Removed Columns1' selected.

Bottom Right Screenshot: Shows the 'Replace Value' step. The query is named 'Table.RemoveColumns(*Replaced Value, ("Job_Family"))'. The data table has columns: JobTitle, Occupation_Code, Job_Industry, Experience, and Job_Family. The 'Query Settings' pane on the right shows the 'APPLIED STEPS' list with 'Replaced Value' selected.

— □ ×



▼ _Measures

- ☐ Avg AI Adoption Rate
- ☐ Avg AI Adoption Rate 1
- ☐ Avg AI Investment Level USD
- ☐ Avg AI ROI Rate
- ☐ Avg Automation Risk
- ☐ Avg Decision Support Index
- ☐ Avg Employment Growth Rate
- ☐ Avg Error Reduction Rate
- ☐ Avg Inflation Rate
- ☐ Avg Innovation Rate Increase
- ☐ Avg Interest Rate
- ☐ Avg Labor Cost Saving
- ☐ Avg New Tasks Created
- ☐ Avg Productivity Gain
- ☐ Avg Projected Salary Change Pct
- ☐ Avg Quality Improvement

- ☐ Avg Task Automation Rate
- ☐ Avg Tasks Eliminated
- ☐ Avg Time Saved Per Week Hours
- ☐ Avg Turnover Rate
- ☐ AvgTimeToPromotion
- ☐ Emerging-to-Declining Job Ratio
- ☐ GDP Growht Rate
- ☐ Skill index average
- ☐ SkillGap average
- ☐ Total Declining Jobs
- ☐ Total Emerging Jobs
- ☐ Total Job Count
- ☐ Total Job Count1

Timeline



Week 1-2

Week 3-4

Week 5-6

Week 7

Week 8

Research
question +
public dataset
collection

Data
cleaning &
modeling (14
tables)

Visual design
+
interactivity
+ 4 tabs

Peer &
professor
testing

Final
documentation

04 Let's have a look



Visualizing Real-Time AI Performance and Impact

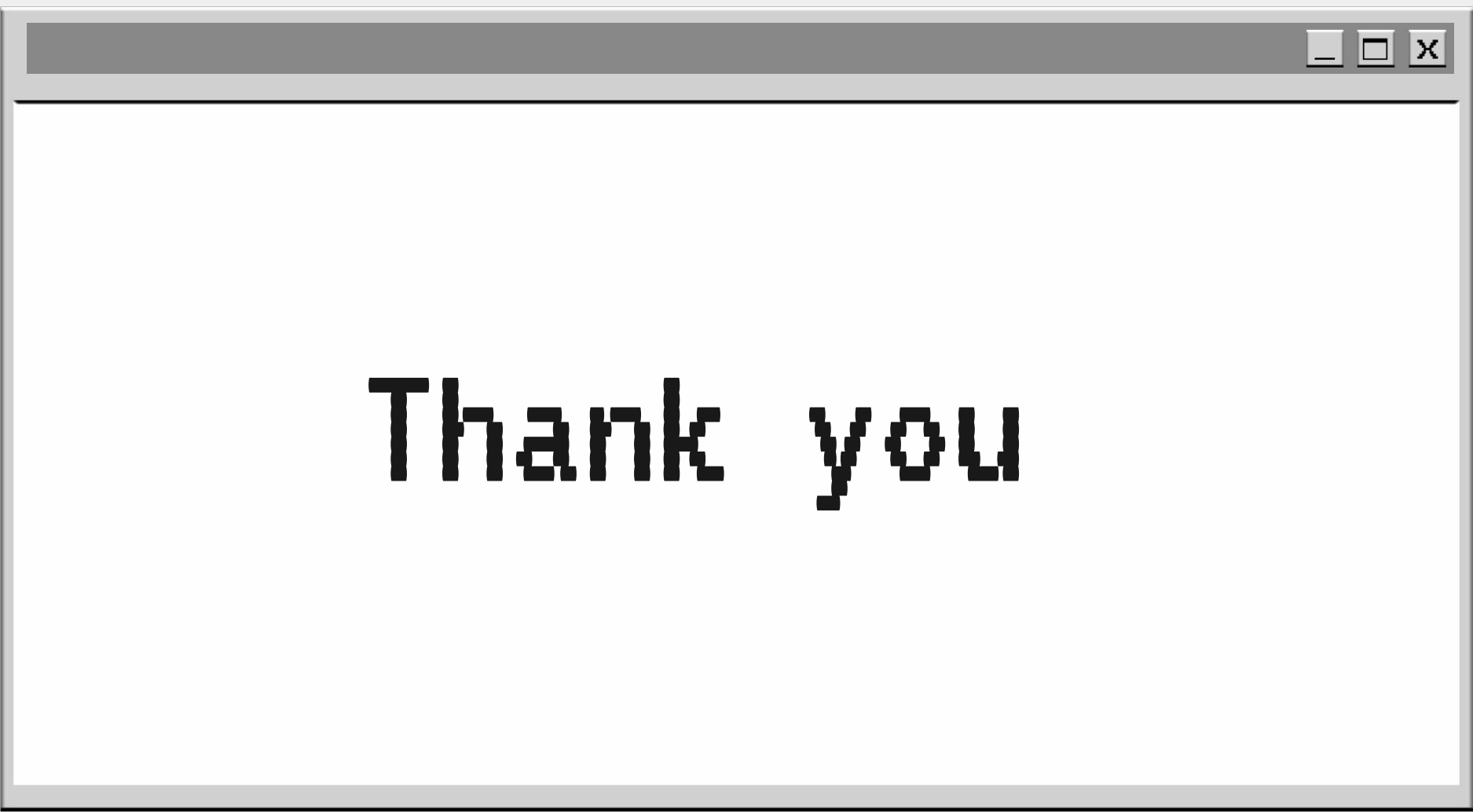


Recommendations

For students: Focus on tech skills, projects, and certifications

For universities: Teach AI-augmented versions of every subject

For policymakers: Support reskilling in high-emergence fields
(Technology, Service Design, AI literacy)

A pixelated 'Thank you' message displayed in a window. The window has a grey title bar at the top with three control buttons (minimize, maximize, and close) on the right side. The text 'Thank you' is centered in a black, pixelated font on a white background.

Thank you