

**Data Analyst Intern - Assignment**  
**TC IT Services | Data & Analytics Team**

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**Assignment Overview**

**Position:** Data Analyst Intern  
**Time Required:** 4-5 hours  
**Submission Deadline:** 5 business days from receipt  
**Format:** PDF Report + Excel File

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**Your Mission**

TC IT Services helps businesses reduce staffing costs by 60% through strategic outsourcing. We need data-driven insights to guide our Q1 2025 strategy.

**Your task:** Research the outsourcing industry, analyze real data, and provide actionable recommendations.

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**PART 1: Industry Research & Analysis (35%)**

**Task 1A: Market Overview**

Research and answer these questions:

**1. Global Outsourcing Market (150-200 words)**

- What is the current market size (USD)?
- What is the annual growth rate?
- Which industries outsource most?
- Cite 3 credible sources

**2. Top 5 Outsourcing Destinations**

Create this table:

Country	Popular Services	Avg Hourly Rate	English Proficiency (1-10)	Key Advantages	Source
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**3. Industry Trends (150-200 words)**

- What roles are most commonly outsourced?
  - How is AI/automation impacting outsourcing?
  - What are 2025 predictions?
  - Cite sources
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### **Task 1B: Competitive Analysis**

Research **2 companies** that offer similar outsourcing services:

**For each competitor:**

- Company name and website
- Services offered
- Geographic reach
- Pricing model (if available)
- What they do well
- What gaps you see

**Your Analysis (200-250 words):**

- How can TC IT Services differentiate itself?
- What opportunities exist in the market?

**Deliverable:** Competitive comparison table + written analysis

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## **PART 2: Data Analysis (40%)**

### **Task 2A: Find Real Data**

Find a **public dataset** related to:

- Global salaries by role/country
- Remote work trends
- Tech employment data
- Cost of living by country
- Or any relevant business data

### **Suggested sources:**

- Kaggle ([kaggle.com/datasets](https://kaggle.com/datasets))
  - World Bank Data ([data.worldbank.org](https://data.worldbank.org))
  - Google Dataset Search
  - Glassdoor/PayScale salary data
  - Our World in Data
  - LinkedIn Economic Graph
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### **Task 2B: Analyze Your Data**

#### **1. Dataset Description**

- What dataset did you choose? (include link)
- How many records?
- What time period?
- Why is it relevant to TC IT Services?

#### **2. Key Findings**

Extract and present **3 key insights** using this format:

##### **Finding #1: [Clear Title]**

**What you found:** [2-3 sentence explanation]

**The data:** [Show calculation, table, or chart]

**Why it matters to TC IT Services:** [2-3 sentences explaining business relevance]

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Repeat for Finding #2 and Finding #3

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### **Task 2C: Data Visualizations**

Create **3 charts/graphs** that illustrate your key findings.

#### **Requirements:**

- Use appropriate chart types

- Clear titles and labels
- Professional design
- Include in your report with brief explanations

**Tools:** Excel, Google Sheets, Tableau Public, Python, R, or any free tool

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## **PART 3: Business Application (25%)**

### **Task 3A: Cost Savings Calculator**

Build an **Excel calculator** with these features:

#### **Inputs:**

- Number of employees to outsource
- Average US salary per role
- Role type (dropdown: Engineering, Support, Marketing, Data, Finance, Operations)

#### **Calculations:**

- Annual cost (US-based hiring)
- Annual cost (outsourced with 60% savings)
- Total annual savings
- 3-year savings projection

#### **Requirements:**

- Show all formulas
- Use cell references
- Clean, professional formatting
- Include simple instructions

**Bonus:** Add a chart showing cost comparison

**Deliverable:** Excel file with working calculator

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### **Task 3B: Strategic Recommendations**

Write a **500-600 word report** covering:

**1. Market Opportunity (150 words)**

- What's the size of the opportunity?
- Which industries/markets should we prioritize?
- Why is now the right time?

**2. Key Insights from Your Analysis (200 words)**

- What are your top 3 data-driven insights?
- What patterns did you discover?
- What surprised you?

**3. Strategic Recommendations (200 words)**

- Give 3 specific, actionable recommendations for Q1 2025
- Each must be backed by your research/data
- Explain expected impact

**Format:**

- Executive summary (50 words at top)
  - Three sections above
  - Conclusion (50 words)
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**BONUS CHALLENGE (Optional +10 points)**

Choose **ONE**:

**Option A: Salary Benchmark Analysis**

- Compare salaries for 3 roles across 5 countries
- Calculate savings potential for each
- Create interactive visualization

**Option B: Market Entry Strategy**

- Recommend one new country for TC IT Services
- Analyze talent, costs, language, regulations

- Build data-backed business case

### **Option C: Advanced ROI Model**

- Build financial model comparing traditional hiring vs outsourcing
  - Include: hiring costs, productivity, retention, overhead
  - Create 3-year scenario analysis
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## **Submission Requirements**

### **What to Submit:**

#### **1. PDF Report**

- Cover page (name, contact info)
- All research and analysis
- Embedded visualizations
- Strategic recommendations
- Bibliography with all sources

#### **2. Excel File**

- Cost savings calculator
- Any analysis work
- Labeled sheets

#### **3. Optional**

- Additional files (Tableau, Python scripts, etc.)

### **File Naming:**

- FirstName\_LastName\_DataAnalyst.pdf
- FirstName\_LastName\_Calculator.xlsx

### **Email To:**

**info@tccconsultingservices.in**

**Subject:** Data Analyst Intern Assignment - [Your Name]

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## Evaluation Criteria

Area	Weight	What We Assess
Research Quality	25%	Source credibility, depth, relevance
Data Analysis	30%	Methodology, insights, accuracy
Visualizations	15%	Clarity, design, appropriate charts
Business Thinking	20%	Strategic value, practical recommendations
Presentation	10%	Professional, clear, well-organized

**Total: 100 points (110 with bonus)**

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## Resources You Can Use

### Data Sources:

- Kaggle
- World Bank Data
- Google Dataset Search
- Statista (free tier)
- LinkedIn insights
- Glassdoor/PayScale
- Our World in Data

### Tools:

- Excel/Google Sheets (required)
- Tableau Public (free)
- Python/R (optional)
- Flourish, Datawrapper (free viz tools)

### Research:

- Google Scholar
- Industry reports (Gartner, Deloitte, McKinsey)

- Company websites
  - News articles
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### Tips for Success

**DO:** ✓ Cite all sources properly ✓ Focus on business relevance, not just numbers ✓

Show your methodology and formulas ✓ Use clear, professional visualizations ✓

Proofread everything ✓ Think strategically about recommendations

**DON'T:** ✗ Use unreliable sources ✗ Copy-paste without attribution ✗ Present data without context ✗ Use wrong chart types ✗ Make claims without data support ✗ Submit without checking for errors

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### Sample Report Structure

#### Suggested page breakdown:

1. **Cover Page** (1 page)
2. **Executive Summary** (1 page)
3. **Part 1: Industry Research** (3-4 pages)
  - Market overview
  - Outsourcing destinations
  - Trends
  - Competitive analysis
4. **Part 2: Data Analysis** (4-5 pages)
  - Dataset description
  - 3 key findings with visualizations
  - Analysis
5. **Part 3: Strategic Recommendations** (2-3 pages)
  - Market opportunity
  - Key insights
  - Recommendations



6. **Conclusion** (1 page)
7. **Bibliography** (1 page)

**Total: 12-15 pages**

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## **Next Steps After Submission**

### **Timeline:**

1. **Review:** 3 business days
  2. **Interview:** 30-minute discussion about your findings (top candidates)
  3. **Final Round:** Technical assessment + team meet
  4. **Decision:** Within 3 business days
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## **Frequently Asked Questions**

### **Q: What if I can't find perfect data?**

A: Use the best available data and document limitations. We value honest analysis.

### **Q: Can I use AI tools like ChatGPT?**

A: Yes, for research help. But analysis and writing must be your original work.

### **Q: How technical should my analysis be?**

A: Focus on clarity over complexity. Basic analysis (averages, percentages, comparisons) done well beats complicated methods done poorly.

### **Q: What if my findings contradict your business model?**

A: Be honest with the data. We value intellectual honesty and critical thinking.

### **Q: Can I focus on one specific industry?**

A: Yes, if you justify why and make it relevant to our business.

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## **Pre-Submission Checklist**

- ☐ Market research completed (3+ sources cited)
- ☐ Top 5 outsourcing destinations researched
- ☐ 2 competitors analyzed
- ☐ Public dataset found and analyzed

- ☐ 3 key findings documented with evidence
  - ☐ 3 visualizations created
  - ☐ Cost calculator built and tested
  - ☐ Strategic recommendations written (500-600 words)
  - ☐ All sources properly cited
  - ☐ Everything proofread
  - ☐ Files named correctly
  - ☐ Ready to submit
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## **What We're Really Looking For**

### **Beyond technical skills, we want to see:**

#### **Curiosity:**

- Do you ask interesting questions?
- Do you dig deeper than surface level?

#### **Critical Thinking:**

- Do you evaluate sources?
- Do you consider multiple perspectives?

#### **Business Sense:**

- Are your insights actionable?
- Do you understand practical applications?

#### **Communication:**

- Can you explain complex ideas simply?
- Are your visualizations clear?

#### **Initiative:**

- Do you take ownership?
  - Do you make smart decisions independently?
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## Example of Strong Work

**Good Finding:** "Senior software engineers in Poland earn an average of \$45,000 annually compared to \$130,000 in the US (PayScale, 2024). This 65% cost difference aligns with TC IT Services' value proposition. Poland also ranks #13 globally in English proficiency (EF EPI, 2024) and operates in CET timezone, allowing 6-hour overlap with US East Coast. Recommendation: Expand recruitment efforts in Poland for tech roles."

### Why it's good:

- Specific data with sources
  - Multiple relevant factors analyzed
  - Clear business application
  - Actionable recommendation
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## Good Luck!

This is your chance to show us how you think, research, analyze, and communicate. There's no single "right answer"—we want to see your unique approach and insights.

**Take your time. Be thorough. Show us what you can do.**

We're excited to see your work!

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## TC IT Services

*Data-driven decisions. Real-world impact.*

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## Questions?

Email: **info@tccounsellingandconsultingservices.in**

Subject: Question - Data Analyst Assignment

Response time: Within 24 hours (business days)

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## Ready to submit?

Email: **info@tccounsellingandconsultingservices.in**

Subject: Data Analyst Intern Assignment - [Your Full Name]