

Shri Govindram Seksaria Institute Of Technology & Science Indore (M.P)

Computer Science & Engineering CO34999-B5

Your Names - Yogesh Sahu (0801CS233D12)
Sameeksha Suryawanshi (0801CS221122)
Stuti Badola (0801CS221139)
Shivank Rai (0801CS221130)
Payal Badal (0801CS221107)

Supervisor's Name – Associate Professor Surendra Gupta

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TaxES

Get your ITR filed



Background

Income tax planning deals with determining ways of utilizing the income of a person to minimize the amount of tax payable. The tax laws specify the amount of tax chargeable on the income of a person. They also specify certain tax reduction mechanisms. These are in the form of rebates from tax, deductions from chargeable income and exemptions from tax for certain types of income.

The purpose of income tax planning is to reduce the tax chargeable as much as possible. This planning is done taking into consideration the available tax reduction mechanisms and the tax payer's requirements and preferences.

About the project

- We aim to create a tool to help Indian individuals file their tax returns.
 - Develop an intelligent tax filing system that automatically suggests the appropriate ITR form.
 - Integrate NLP to extract data from documents like salary slips.
 - Calculate the total tax payable based on user data.
 - Generate a pre-filled ITR form for the user based on the computed information.
-

Problem Statement

“How might we simplify and automate the process of filing income tax returns for Indian individuals by using expert systems and NLP to ensure accuracy and reduce complexity?”

Already implemented solutions

Income Tax e-filing Portal

provides access to laws and forms and has an Income Tax Calculator

Vakil Search

Offers expert legal and compliance solutions

MyTaxIndia

Provides tax calculation for individuals

ClearTax

Provides tax calculation and other services

The type of ITR you have to fill depends on--

What Type of Income you have ?

These 5 Types of income are shown in the income Tax Act.

- **Salary**
 - **House Property**
 - **Profits from Business**
 - **Capital Gains**
 - **Other Sources**
-

The department prescribes seven types of ITR forms based on the type of taxpayer and income:

ITR-1 Salary Income + House Property + Other Income (<50L)

ITR-2 Salary + Capital Gains + Multiple House Properties

ITR-3 Business Income, Professional Income, Trading

ITR-4 Presumptive Taxation for Businesses & Freelancers

ITR-5 for partnership firms, LLP, AOP and BOI. Business entities such as LLP, partnership firms, AOP and BOI can file ITR-5 for reporting income from business and profession and any other source of income.

ITR-6 is the income tax return for companies to file income from business or profession and any other sources of income.

ITR-7 is the income tax return for companies, associations and trusts claiming income tax exemption.

Which ITR will be applicable on you?

Salaried Individuals :

Returns and Forms Applicable for Salaried Individuals for AY 2025-26

1. ITR-1 (SAHAJ) – Applicable only for Individual :

This return is applicable for a Resident (other than Not Ordinarily Resident) Individual having Total Income from any of the following sources up to ₹ 50 lakh

- Salary / Pension
- One House Property
- Other sources (Interest, Family Pension, Dividend etc.)
- Agricultural Income up to ₹ 5,000

Note: ITR-1 cannot be used by a person who:

- Is a director in a company
- Has held unlisted equity shares during the previous year
- Owns assets or financial interests outside India
- Has signing authority in an account outside India
- Earns income from foreign sources
- Is subject to tax deduction under section 194N
- Has deferred tax payment on ESOPs
- Has brought forward or carry forward losses under any income head
- Has total income exceeding ₹50 lakh

2. ITR-2 - Applicable for Individual (Not eligible for ITR 1) and HUF

This return is applicable for Individual and Hindu Undivided Family (HUF)

- Not having Income under the head Profits and Gains of Business or Profession
- Who is not eligible for filing ITR-1

3. ITR-3- Applicable for Individual and HUF

This return is applicable for Individual and Hindu Undivided Family (HUF)

- Having Income under the head Profits and Gains of Business or Profession
- Who is not eligible for filing ITR-1, ITR-2 or ITR-4

4. ITR-4 (SUGAM) – Applicable for Individual, HUF and Firm (other than LLP)

This return is applicable for an Individual or Hindu Undivided Family (HUF), who is Resident other than Not Ordinarily Resident or a Firm (other than LLP) which is a Resident having Total Income up to ₹ 50 lakh and having income from Business or Profession which is computed on a presumptive basis (u/s 44AD / 44ADA / 44AE) and income from any of the following sources:

- Salary / Pension
- One House Property
- Other sources (Interest, Family Pension, Dividend etc.)
- Agricultural Income up to ₹ 5,000

Note 1: ITR-4 is not applicable to a person who:

- Is a director in a company
- Has held unlisted equity shares during the previous year
- Owns assets or financial interests outside India
- Has signing authority in an account outside India
- Earns income from foreign sources
- Has deferred tax payment on ESOPs
- Has brought forward or carry forward losses under any income head
- Has total income exceeding ₹50 lakh

Forms Applicable :

Form 12BB – Particulars of claims by an employee for deduction of tax (u/s 192)

Form 16 – Certificate of Tax Deducted at Source on Salary (U/s 203 of the Income Tax Act, 1961)

Form 16A – Certificate u/s 203 of the Income Tax Act, 1961 for TDS on Income other than Salary

Form 67– Statement of Income from a country or specified territory outside India and Foreign Tax Credit

Form 26 AS – AIS (Annual information Statement)

Form 15G – Declaration by resident taxpayer (not being a Company or Firm) claiming certain receipts without deduction of tax

Form 15H – Declaration to be made by a resident individual (who is 60 years age or more) claiming certain receipts without deduction of tax

Form 10E – Form for furnishing particulars of Income for claiming relief u/s 89(1) when Salary is paid in arrears or advance

Investments / Payments / Incomes on which I can get tax benefit

Following deductions will be available to a taxpayer opting for the New Tax Regime u/s 115BAC:

- 1. Section 24(b)**
- 2. Section 80CCD(2)**
- 3. Section 80CCH**

Tax deductions in the Old Tax Regime :

- **Section 24(b)**
 - **Section 80C, 80CCC, 80CCD (1)**
 - **Section 80CCD(1B)**
 - **Section 80CCD(2)**
 - **Section 80CCH**
 - **Section 80D**
 - **Section 80DD**
 - **Section 80DDB**
 - **Section 80E**
 - **Section 80EEA**
 - **Section 80EEB**
 - **Section 80G**
 - **Section 80GG**
 - **Section 80GGA**
 - **Section 80GGC**
 - **Section 80TTA**
 - **Section 80TTB**
 - **Section 80U**
-

Business/Profession:

- **ITR-3** – Applicable for Individual & HUF
 - **ITR-4** (SUGAM) – Applicable for Individual, HUF & Firm (Other than LLP)
-
- **Form 16A** --- Certificate u/s 203 of the Income Tax Act, 1961 for TDS on Income other than Salary
 - **Form 26 AS** --- AIS (Annual information Statement)
 - **Form 3CB-CD**
 - **Form 15G** – Declaration by resident Taxpayer (not being a Company or Firm) claiming certain receipts without deduction of tax
 - **Form 15H** – Declaration to be made by a resident Individual (who is 60 years age or more) claiming certain receipts without deduction of tax
 - **Form 3CEB**
-

Senior/Super Senior Citizon

- **ITR-1 (SAHAJ)** – Applicable only for Individual
 - **ITR-2** – Applicable for Individual (Not eligible for ITR 1) and HUF
 - **ITR-3** – Applicable for Individual & HUF
 - **ITR-4 (SUGAM)** – Applicable for Individual, HUF & Firm (Other than LLP)
-
- **Form 16** – Details of Tax Deducted at Source on salary (Certificate u/s 203 of the Income Tax Act, 1961)
 - **Form 16A** --- Certificate u/s 203 of the Income Tax Act, 1961 for TDS on Income other than Salary
 - **Form 26 AS** --- AIS (Annual information Statement)
 - **Form 3CB-CD**
 - **Form 12BB** – Particulars of claims by an employee for deduction of tax (u/s 192)
 - **Form 15H** – Declaration to be made by a resident Individual (who is 60 years age or more) claiming certain receipts without deduction of tax
 - **Form 3CEB**
-

Non-Resident :

- **ITR-2** - Applicable for Individual (Not eligible for ITR 1) and HUF
- **ITR-3** - Applicable for Individual & HUF

Same All Forms (Salary Employed, Business/Profession)

Hindu Undivided Family (HUF) :

- **ITR-2** - Applicable for Individual (Not eligible for ITR 1) and HUF
- **ITR-3** - Applicable for Individual & HUF
- **ITR-4** - Applicable for Individual, HUF and Firm (other than LLP)

Same All Forms (Salary Employed, Business/Profession)

GitHub Link :

<https://github.com/yogeshsahu0582/YSSSP/>

Select ITR Form: -

Salary & No Capital Gains? → **ITR-1**

Capital Gains? → **ITR-2**

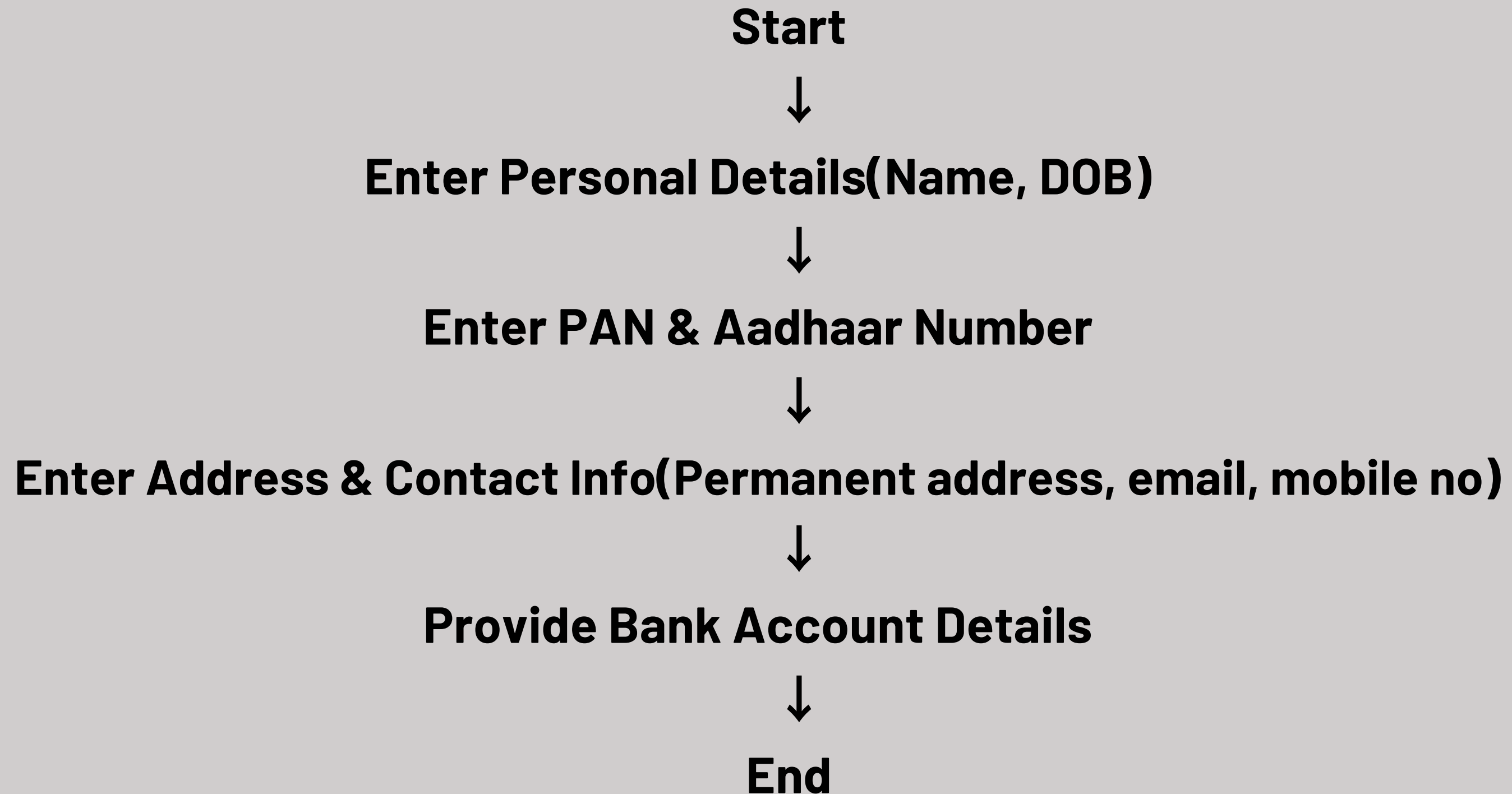
Business/Professional Income? → **ITR-3**



Salary & No
Capital Gains?

Capital Gains?

Business/Professional
Income?



Step 1-Fill in Personal Information

- 📌 Auto-filled from PAN Database
- ✓ Name, PAN, Aadhaar
- ✓ Address, Mobile Number
- ✓ Bank Account Details (for tax refund)

Step 2-Enter Income Details

- 📌 Income from Salary (Form 16)
- ✓ Employer Name, TAN
- ✓ Gross Salary
- ✓ Allowances & Perquisites
- ✓ Exemptions (HRA, LTA, etc.)
- ✓ Net Taxable Salary
- 📌 Income from House Property (if applicable)
- ✓ Enter details if rented out (Rental Income)
- ✓ Enter Home Loan Interest (if applicable)
- 📌 Income from Other Sources
- ✓ Interest on Savings Account
- ✓ Interest from Fixed Deposits
- ✓ Dividend Income
- 📌 Exempt Income (if any)
- ✓ Agricultural Income (up to ₹5,000)

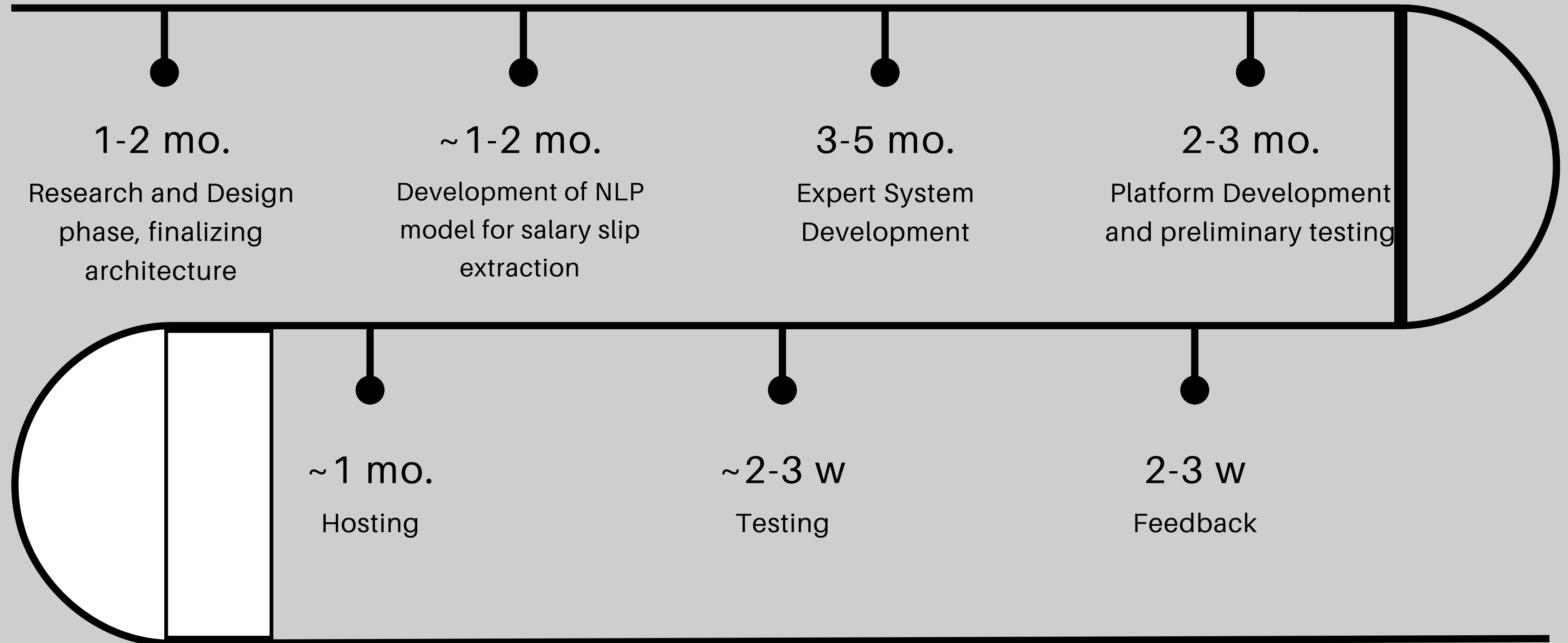
Step 3-Enter Deductions (Chapter VI-A) 🏛️

- 📌 Deductions under Section 80C (Max ₹1.5 lakh)
- ✓ PPF, EPF, LIC Premium, ELSS, NPS, etc.
- 📌 Other Deductions
- ✓ 80D – Health Insurance Premium
- ✓ 80E – Education Loan Interest
- ✓ 80G – Donations
- ✓ 80TTA – Savings Account Interest Deduction (₹10,000 max)

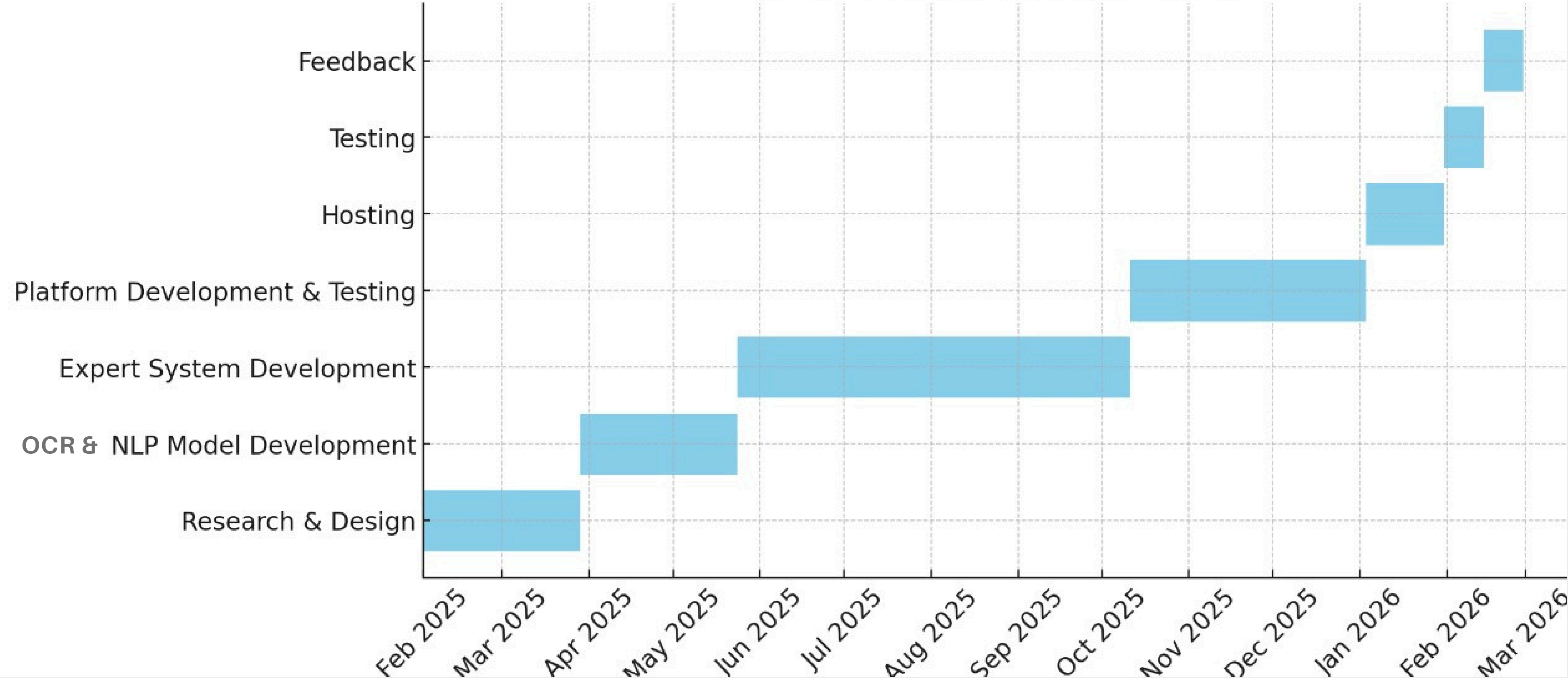
Step 4-Compute Tax Liability 📊

- ◆ The system automatically calculates:
- ✓ Gross Total Income
- ✓ Deductions Applied
- ✓ Total Taxable Income
- ✓ Tax Payable or Refundable
- 📌 Verify TDS from Form 26AS

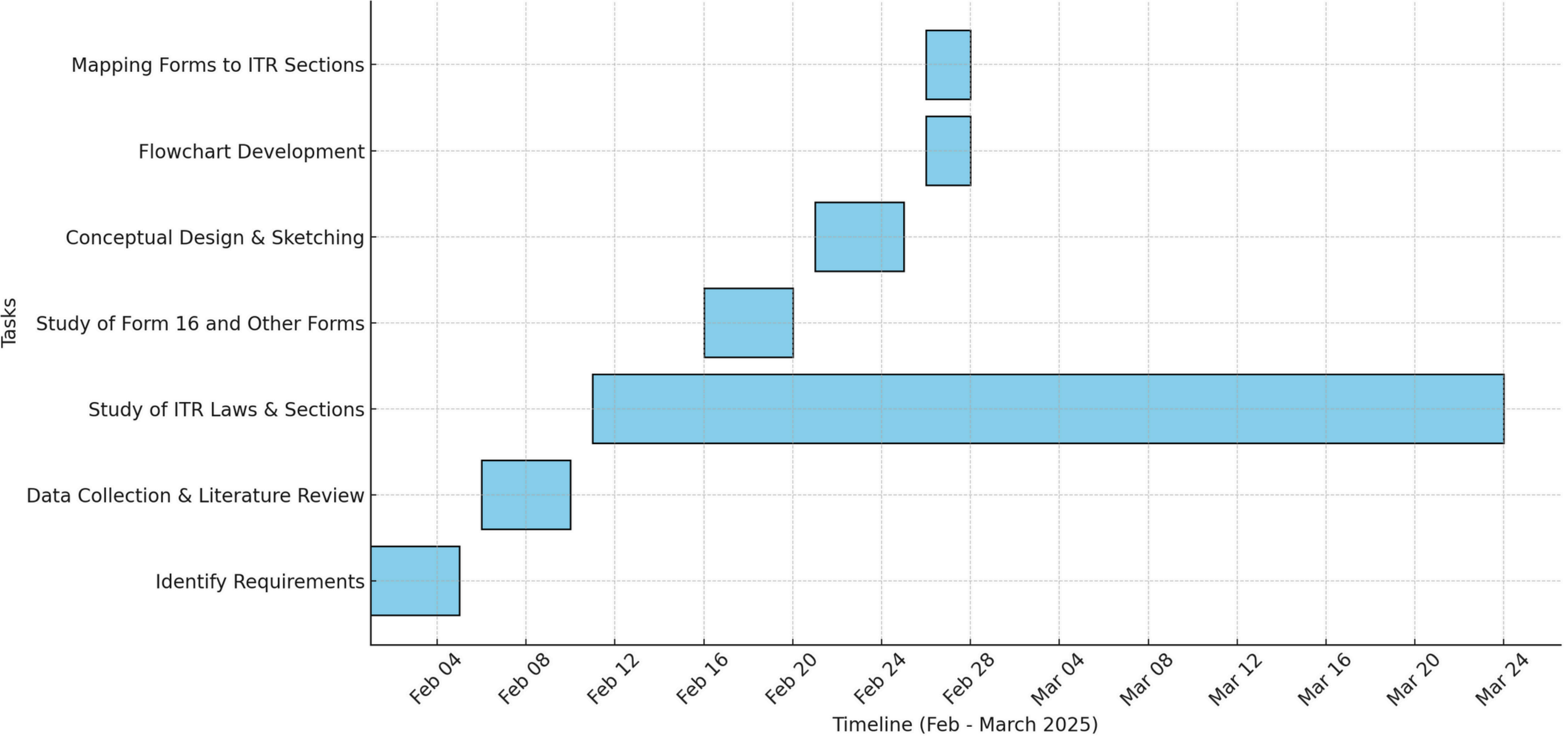
Tentative Project Timeline



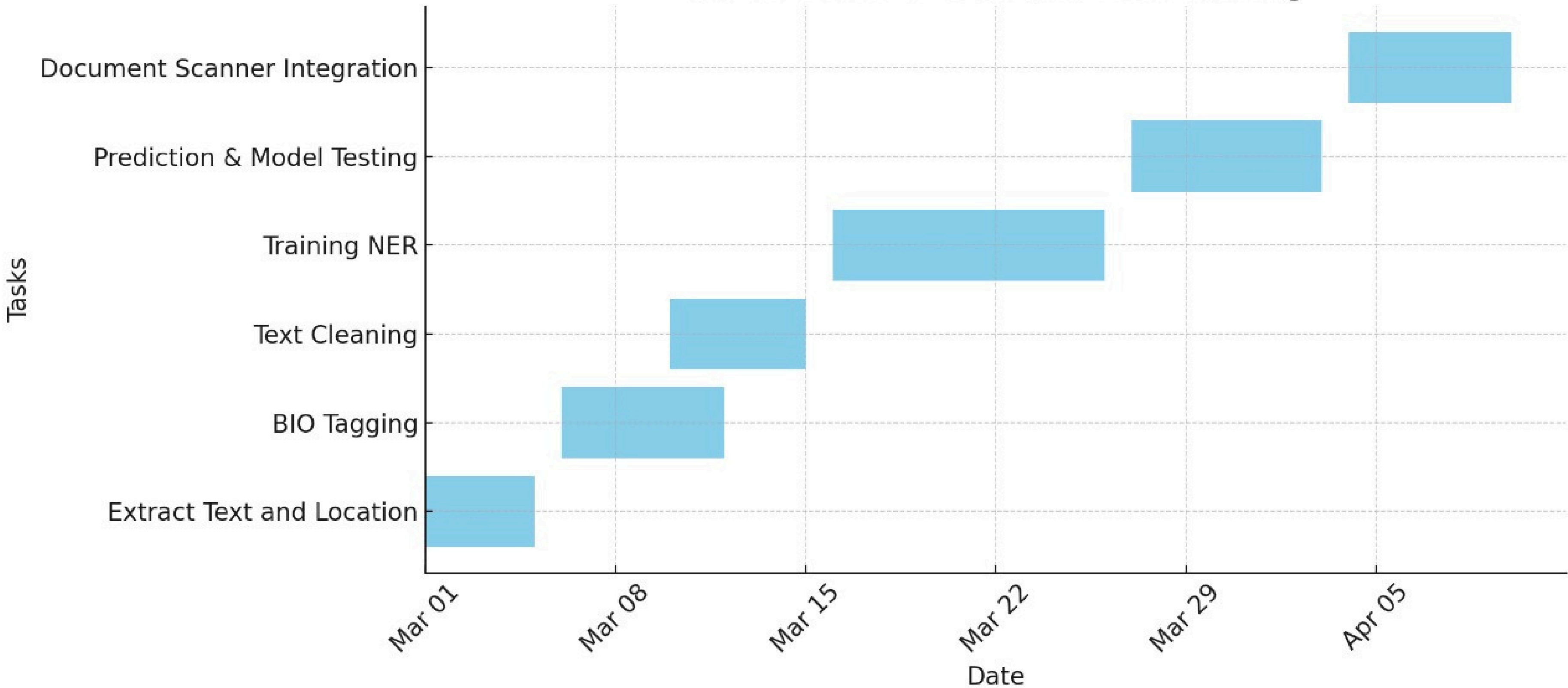
Project Gantt Chart for TaxES



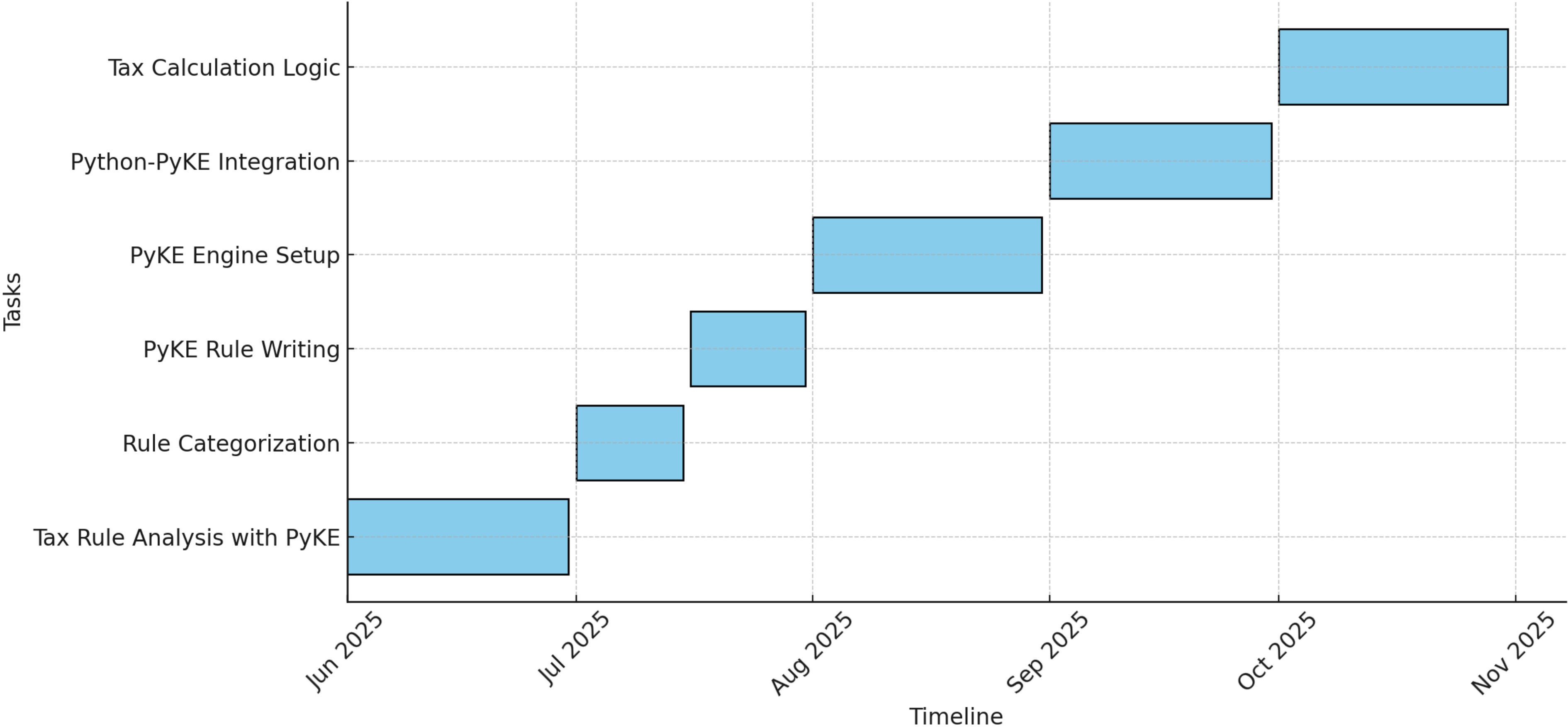
Gantt Chart - Research and Design Phase (Final Version)



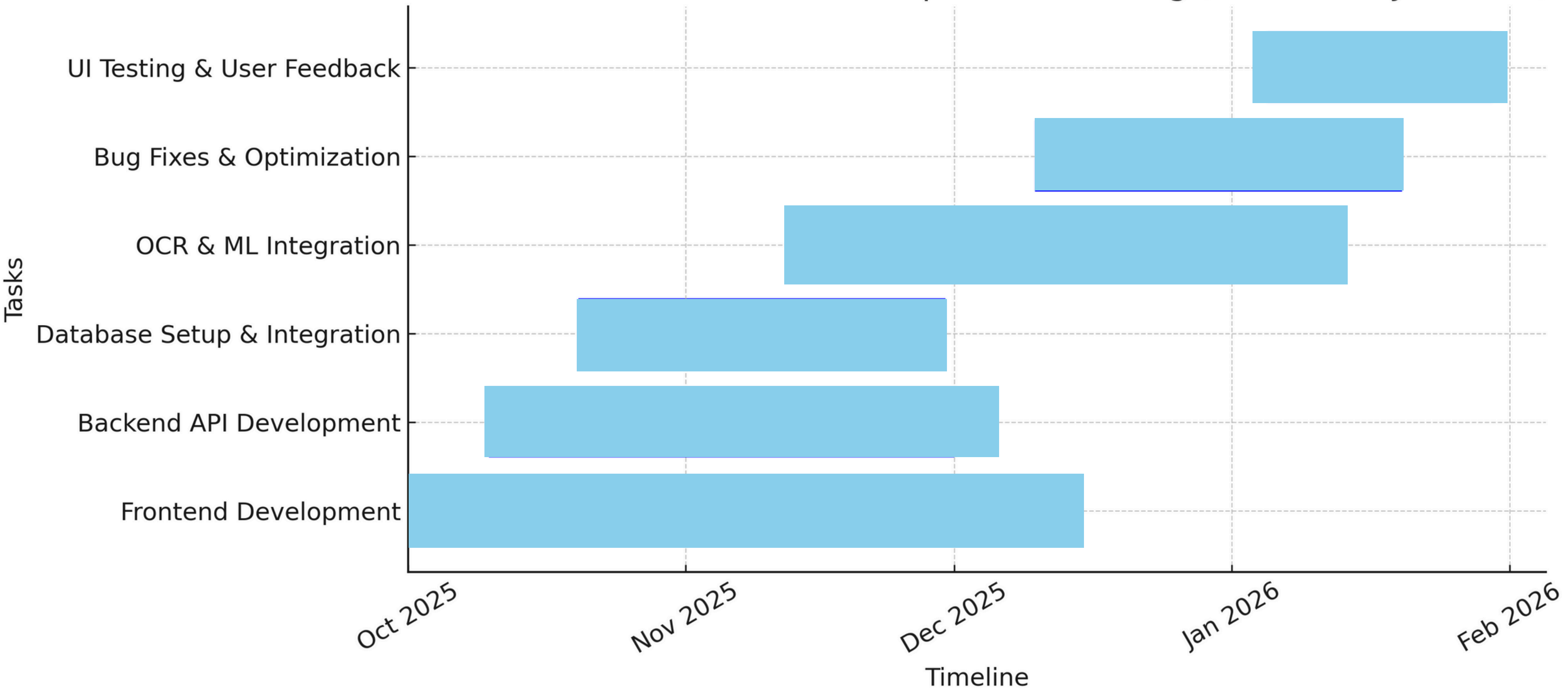
Gantt Chart for OCR and NER Training



Gantt Chart for Expert System Development (June - Oct 2025)



Gantt Chart for Platform Development & Testing (Oct 2025 - Jan 2026)



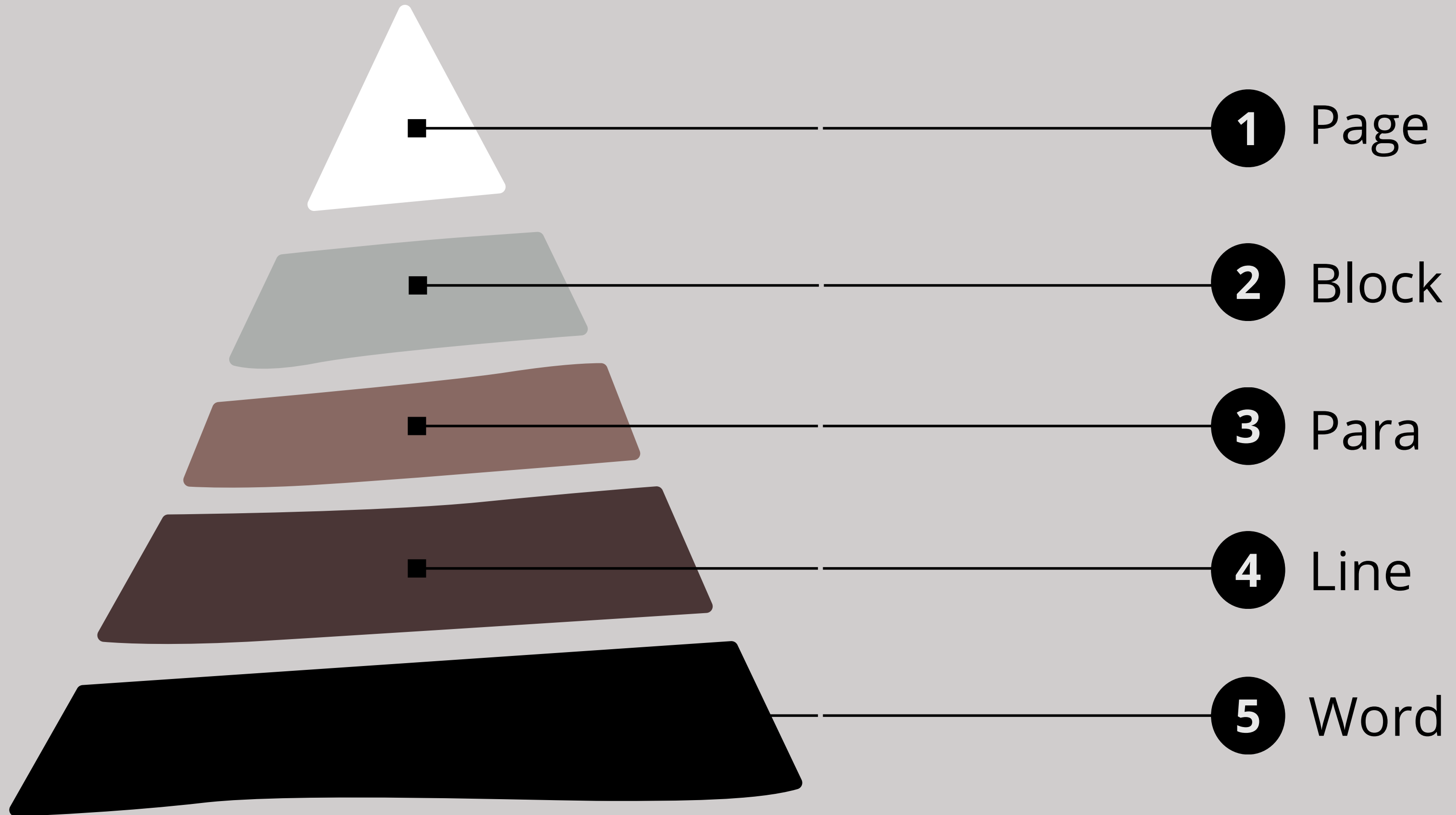
Member Assigned For Major Project – TaxES

Module	Start Date	End	Member Assigned
Requirement Gathering & Analysis - Research & Design	Feb-25	Mar-25	Shivank Rai, Stuti Badola, Sameeksha Suryawanshi, Payal Badal
NLP Model Development & OCR	Apr-25	Jun-25	Yogesh Sahu, Shivank Rai, Stuti Badola
Expert System Development	Jul-25	Sep-25	Yogesh Sahu, Stuti Badola, Payal Badal , Shivank Rai
Plateform Development & Testing	Oct-25	Dec-25	Stuti Badola, Sameeksha Suryawanshi, Payal Badal
Hosting & Deployment	Jan-26	Jan-26	Shivak Rai , Yogesh Sahu
Testing	Feb-26	Feb-26	Yogesh Sahu, Shivank Rai, Stuti Badola, Sameeksha Suryawanshi, Payal Badal
Feedback	Mar-26	Mar-26	Yogesh Sahu, Shivank Rai, Stuti Badola, Sameeksha Suryawanshi, Payal Badal

Library/Modules Used:

Category	Technology Used	Purpose	Key Libraries/Models
OCR (Optical Character Recognition)	Image-to-Text Conversion	Extracts text from scanned tax documents (Form 16, PAN, Aadhaar, Salary Slips).	pytesseract, openCV, EasyOCR, Keras-OCR
NER (Named Entity Recognition)	Text Extraction & Classification	Identifies key financial entities like Name, PAN, Aadhaar, Salary, Deductions.	spaCy, RegEx, pandas, pickle Hugging Face (BERT)
Expert System	Rule-Based AI & ML Models	Automates tax calculations, selects ITR type, applies deductions, and optimizes tax filing.	Custom Rules, scikit-learn (Decision Trees), Prolog, Drools (Rule-Based Systems)

Levels



Page

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Para

FORM NO. 16				
[See rule 21(3)(a)]				
PART A				
Certificate under section 203 of the Income tax Act, 1961 for Tax deducted at source on Salary				
Name and Address of the Employer		Name and Designation of the Employee		
ABC Company 911, Mahatma Chambers M G Road Bangalore		Employee A Senior Executive		
PAN of the Deductor	TAN of the Deductor	PAN of the Employee		
	KARACT884F	ABCCDE1234F		
CIT (TDS)		Assessment Year		
Address : No. 223, TTK Road		Period		
City : Bangalore		From To		
Pincode : 560043		2014 - 2015 1-Apr-2013 31-Mar-2014		
Summary of tax deducted at source				
Quarter	Receipt Numbers of original statements of TDS under sub-section(3) of section 200	Amount of tax deducted in respect of the employee	Amount of tax deposited / remitted in respect of the employee	
Quarter 1	1232076375	1,192.00	1,192.00	
Quarter 2				
Quarter 3				
Quarter 4				
Total		1,192.00	1,192.00	
PART B				
Details of Salary paid and any other income and tax deducted				
1. Gross Salary				
a) Salary as per Provisions contained in sec. 17(1)	1,24,022.00			
b) Value of perquisites u/s 17(2) (as per Form No.12BA, wherever applicable)	44,000.00			
c) Profits in lieu of salary under section 17(3) (as per Form No. 12BA, wherever applicable)	10,000.00			
Total		1,78,022.00		
2. Less: Allowance to the Extent u/s 10				
Conveyance Allowance	800.00			
Transport Allowance	40,000.00	40,800.00		
3. Balance (1-2)				1,38,022.00
4. Deductions				
Professional Tax (Tax on Employment)	600.00			
5. Aggregate of deductions		600.00		
6. Income Chargeable under the head 'salaries' (3-5)				1,37,422.00
7. Add: Any other income reported by the employee				
Income From House Property	(-11,57,500.00)			
Income From Other Sources	1,05,000.00			
Interest on Housing Loan - Self Occupied		(-52,500.00)		
8. Gross total income (6+7)				84,922.00
9. Deductions under Chapter VI				
(A) Section 80C, 80CC and 80CED		15,940.00		
B Section 80C				
Employee Provident Fund (EPF)	8,903.00			
Insurance Premium	7,037.00			

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Line

Word

Text

[illegible]

INCOME TAX RETURN									
Tax Year 2018/19									
PART A: Personal Details									
Name: Mr. John Doe									
Date of Birth: 15/03/1980									
Residential Address: 123 Main Street, London, UK									
Employer: ABC Company Ltd									
Employment Details: Full-time, Salary £25,000									
Marital Status: Single									
Date of Declaration: 31/03/2019									
Signature: [Signature]									
PART B: Income									
1. Employment Income: £25,000									
2. Other Income: £0									
3. Dividend Income: £0									
4. Rental Income: £0									
5. Capital Gains: £0									
6. Other Income: £0									
Total Income: £25,000									
PART C: Deductions									
1. Personal Allowance: £5,000									
2. Tax Credits: £0									
3. Other Deductions: £0									
Total Deductions: £5,000									
PART D: Tax Calculation									
1. Taxable Income: £20,000									
2. Tax Rate: 20%									
3. Tax Due: £4,000									
4. Tax Paid: £0									
5. Tax Refund: £4,000									
6. Total Tax Due: £0									
7. Total Tax Refund: £4,000									
8. Net Income: £25,000									
9. Total Income: £25,000									
10. Total Deductions: £5,000									
11. Total Tax Due: £0									
12. Total Tax Refund: £4,000									
13. Net Income: £25,000									
14. Total Income: £25,000									
15. Total Deductions: £5,000									
16. Total Tax Due: £0									
17. Total Tax Refund: £4,000									
18. Net Income: £25,000									
19. Total Income: £25,000									
20. Total Deductions: £5,000									
21. Total Tax Due: £0									
22. Total Tax Refund: £4,000									
23. Net Income: £25,000									
24. Total Income: £25,000									
25. Total Deductions: £5,000									
26. Total Tax Due: £0									
27. Total Tax Refund: £4,000									
28. Net Income: £25,000									
29. Total Income: £25,000									
30. Total Deductions: £5,000									
31. Total Tax Due: £0									
32. Total Tax Refund: £4,000									
33. Net Income: £25,000									
34. Total Income: £25,000									
35. Total Deductions: £5,000									
36. Total Tax Due: £0									
37. Total Tax Refund: £4,000									
38. Net Income: £25,000									
39. Total Income: £25,000									
40. Total Deductions: £5,000									
41. Total Tax Due: £0									
42. Total Tax Refund: £4,000									
43. Net Income: £25,000									
44. Total Income: £25,000									
45. Total Deductions: £5,000									
46. Total Tax Due: £0									
47. Total Tax Refund: £4,000									
48. Net Income: £25,000									
49. Total Income: £25,000									
50. Total Deductions: £5,000									
51. Total Tax Due: £0									
52. Total Tax Refund: £4,000									
53. Net Income: £25,000									
54. Total Income: £25,000									
55. Total Deductions: £5,000									
56. Total Tax Due: £0									
57. Total Tax Refund: £4,000									
58. Net Income: £25,000									
59. Total Income: £25,000									
60. Total Deductions: £5,000									
61. Total Tax Due: £0									
62. Total Tax Refund: £4,000									
63. Net Income: £25,000									
64. Total Income: £25,000									
65. Total Deductions: £5,000									
66. Total Tax Due: £0									
67. Total Tax Refund: £4,000									
68. Net Income: £25,000									
69. Total Income: £25,000									
70. Total Deductions: £5,000									
71. Total Tax Due: £0									
72. Total Tax Refund: £4,000									
73. Net Income: £25,000									
74. Total Income: £25,000									
75. Total Deductions: £5,000									
76. Total Tax Due: £0									
77. Total Tax Refund: £4,000									
78. Net Income: £25,000									
79. Total Income: £25,000									
80. Total Deductions: £5,000									
81. Total Tax Due: £0									
82. Total Tax Refund: £4,000									
83. Net Income: £25,000									
84. Total Income: £25,000									
85. Total Deductions: £5,000									
86. Total Tax Due: £0									
87. Total Tax Refund: £4,000									
88. Net Income: £25,000									
89. Total Income: £25,000									
90. Total Deductions: £5,000									
91. Total Tax Due: £0									
92. Total Tax Refund: £4,000									
93. Net Income: £25,000									
94. Total Income: £25,000									
95. Total Deductions: £5,000									
96. Total Tax Due: £0									
97. Total Tax Refund: £4,000									
98. Net Income: £25,000									
99. Total Income: £25,000									
100. Total Deductions: £5,000									
101. Total Tax Due: £0									
102. Total Tax Refund: £4,000									
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Employee Information									
Employee Name		Employee ID		Employee Address		Employee Contact		Employee Status	
John Doe		12345		123 Main St, Anytown, CA 90210		(555) 123-4567		Active	
Employee Title		Employee Department		Employee Manager		Employee Hire Date		Employee Termination Date	
Software Engineer		Engineering		Jane Smith		2023-01-15			
Employee Salary		Employee Bonus		Employee Commission		Employee Health Insurance		Employee Life Insurance	
\$100,000		\$10,000		5%		Yes		Yes	
Employee Performance									
Employee Rating		Employee Review Date		Employee Reviewer		Employee Review Comments		Employee Review Score	
4.5		2023-12-31		John Doe		Excellent performance, exceeded expectations.		4.5	
Employee Tax Information									
Employee Tax ID		Employee Tax Status		Employee Tax Exemption		Employee Tax Withholding		Employee Tax Payment	
123-45-6789		Single		None		\$100.00		\$100.00	
Employee Social Security Information									
Employee Social Security Number		Employee Social Security Administration		Employee Social Security Benefits		Employee Social Security Payments		Employee Social Security Credits	
123-45-6789-0123		Social Security Administration		Retirement, Disability		\$100.00		1.0	
Employee Other Information									
Employee Other ID		Employee Other Address		Employee Other Contact		Employee Other Status		Employee Other Comments	
None		None		None		None		None	

Mapping

FORM NO. 16			
[See rule 31(1)(a)]			
PART A			
Certificate under section 203 of the Income-tax Act, 1961 for Tax deducted at source on Salary			
Name and Address of the Employer		Name and Designation of the Employee	
ABC Company 9/1, Mahalaxmi Chambers M G Road Bangalore		Employee A Senior Executive	
PAN of the Deductor	TAN of the Deductor	PAN of the Employee	
	KARA07884F	ABCDE1234F	
CIT (TDS)		Assessment Year	Period
Address : No. 223, TTK Road			From To
City : Bangalore		2014 - 2015	1-Apr-2013 31-Mar-2014
Pincode : 560043			

Name	Employee A
PAN	ABCDE1234F
Assessment Year	2014-15

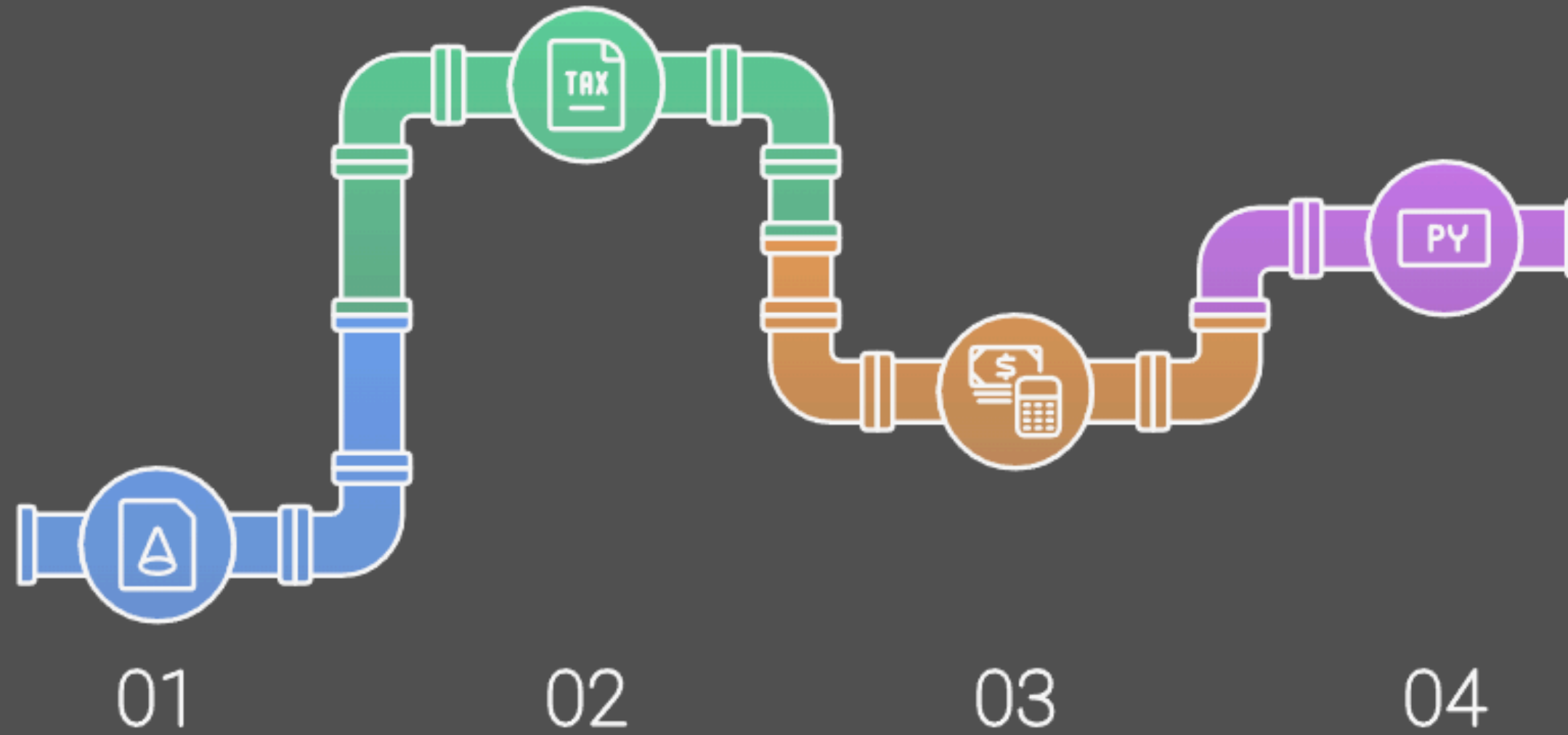
FORM NO. 16			
[See rule 31(1)(a)]			
Certificate under section 203 of the Income-tax Act, 1961 for tax deducted at source on Salary .			
Name and address of the Employer		Name, EmpNo, Bill Unit and designation of the Employee	
Ministry of Railways, Govt. of India, Rail Bhawan		PRACHI LINCON PATRA, 50211160226, 3104026, AREA MANAGER	
PAN of the Deductor.	TAN of the Deductor.	PAN of the Employee.	
	BLRS25130A	BOZPP9837A	
CIT (TDS)		Assessment Year	Period
Address:			From To
City:	Pin Code:	2020-2021	01/APR/2019 31/MAR/2020

Name	Prachi Lincoln Patra
PAN	BOZPP9837A
Assessment Year	2020-2021

PART B			
Details of Salary paid and any other income and tax deducted			
1.	Gross Salary		
a)	Salary as per Provisions contained in sec.17(1)	1,24,822.00	
b)	Value of perquisites u/s 17(2) (as per Form No.12BA wherever applicable)	44,000.00	
c)	Profits in lieu of salary under section 17(3) (as per Form No.12BA, wherever applicable)	10,000.00	
	Total		1,78,822.00
2.	Less: Allowance to the Extent u/s 10		
	Conveyance Allowance	800.00	
	Transport Allowance	40,000.00	
			40,800.00
3.	Balances (1-2)		1,38,022.00
4.	Deductions		
	Professional Tax (Tax on Employment)	600.00	
5.	Aggregate of deductions		600.00
6.	Income Chargable under the head 'salaries' (3-5)		1,37,422.00
7.	Add: Any other income reported by the employee		
	Income From House Property	(-)1,57,500.00	
	Income From Other Sources	1,05,000.00	
	Interest on Housing Loan - Self Occupied		
			(-)52,500.00
8.	Gross total income (6+7)		84,922.00
9.	Deductions under Chapter VIA		
	(A) Section 80C, 80CCC and 80CCD		
	i) Section 80C		15,903.00
	Employee Provident Fund (EPF)	8,903.00	
	Insurance Premium	7,000.00	

**NER using
spaCy**

Development of Tax Calculation Expert System



Define Facts

Extract and structure
input data into PyKE
facts

Encode Tax Rules

Write knowledge rule
bases for tax
calculations

Use Inference Engine

Apply rules
iteratively to
compute tax liability

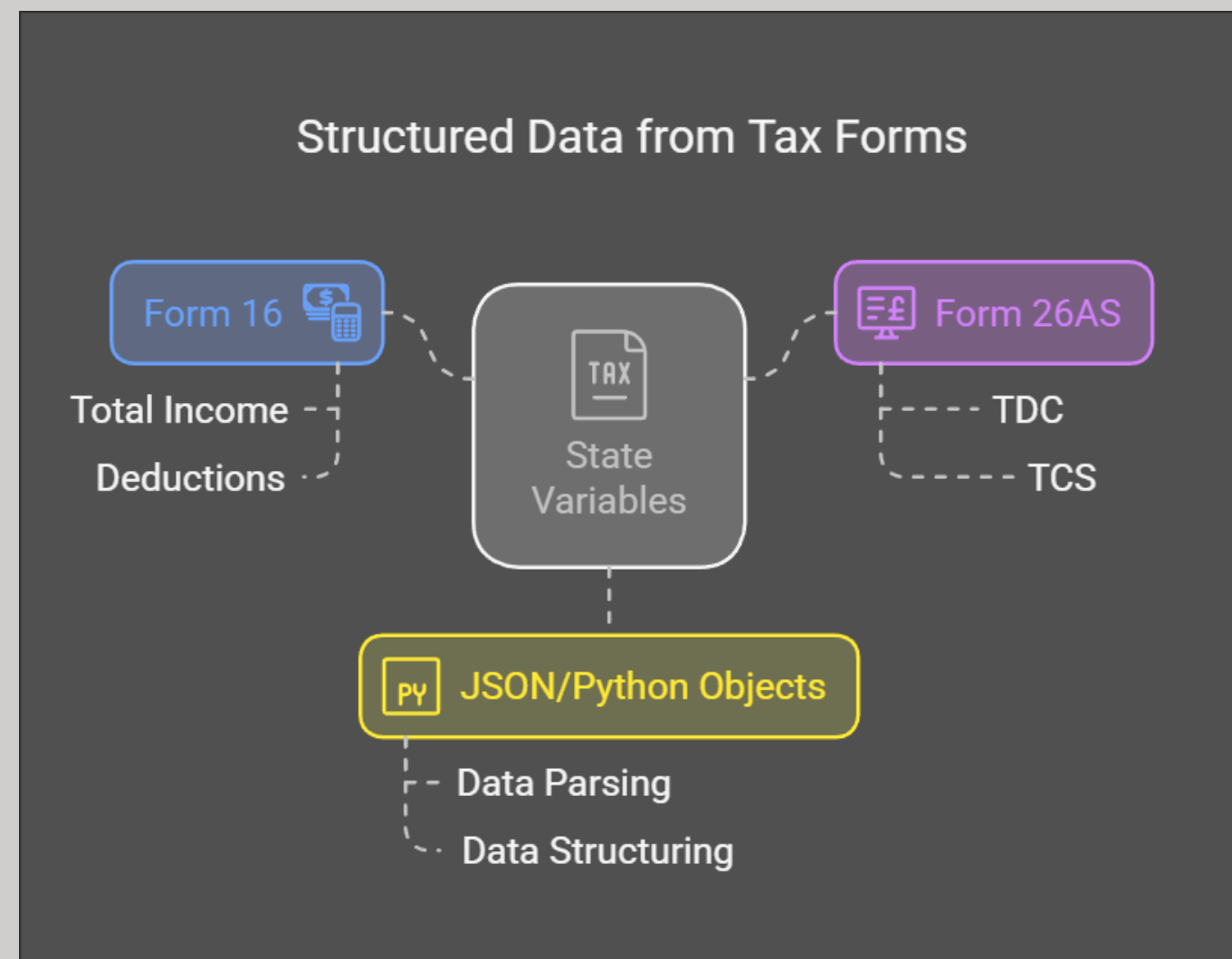
Integration

Embed PyKE in
Python for input and
output processing

Expert System: Rule Engine and Knowledge Base creation

1. Facts or statements:

First we will create facts/statements from the state variables (like total income, deductions, HRA allowance, etc.). These state variables will be acquired from the parsing of Form 16, Form 26AS, etc. and output as structured JSON/Python objects.



For example:-

```
Person(name, total_salary=800000)
```

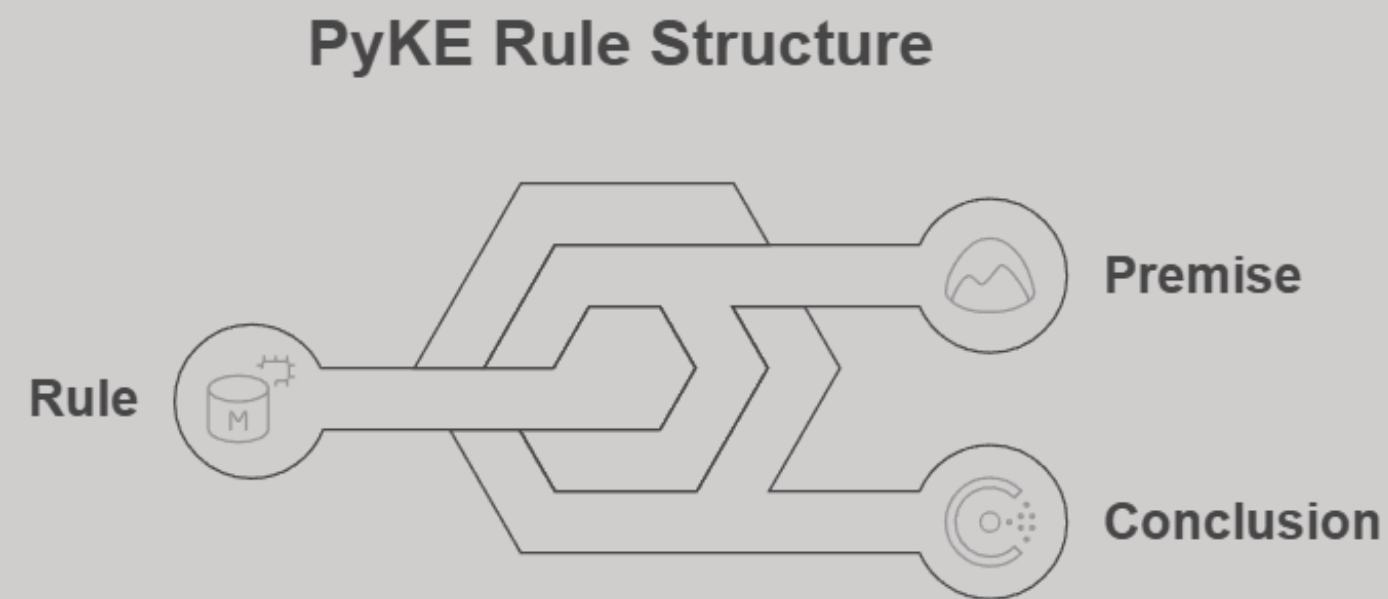


Fact Base stores facts in the form of (.kfb) file

Expert System: Rule Engine and Knowledge Base creation

2. Rules:

Rules in PyKE define logic that can be applied to facts(or state variables), typically with an **"if-then"** structure where the "if" part is termed as **premise** and the "then" part as **conclusion**.



For example:-

```
# tax_slabs.krb
rule calculate_tax_slab:
    IF taxable_income($income) AND $income ≤ 700000
    THEN tax_amount(0)
```

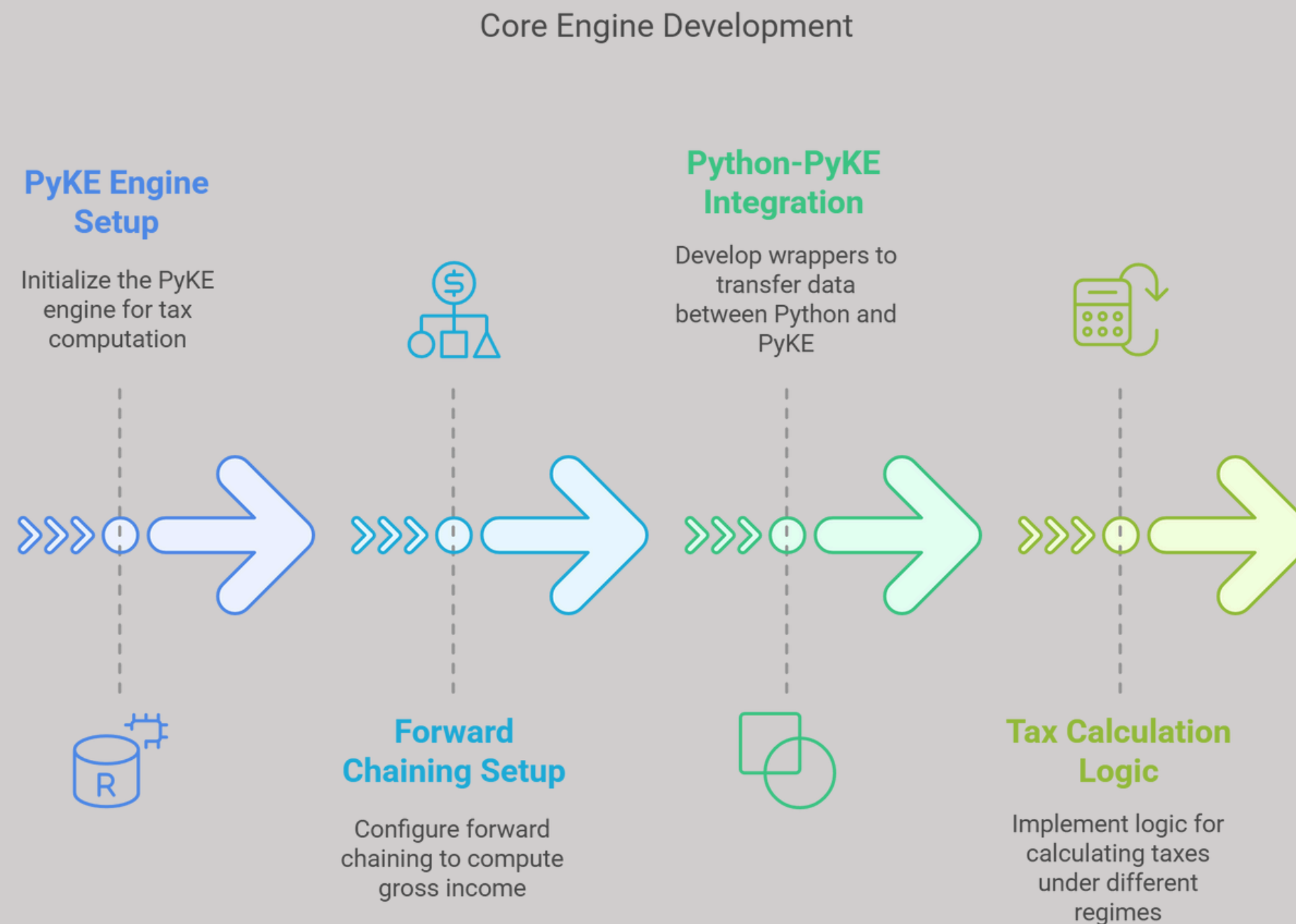
Unit Test: Validate rules with sample inputs (e.g., ₹8L income with ₹1.5L 80C deduction).

Rule Base stores rules in the form of (.krb) file

Expert System: Rule Engine and Knowledge Base creation

3. Core Engine Development: (Inference Engine)

Build the PyKE inference engine and integrate with Python.



OUTPUT

1. Tax Calculation Summary:

- **Total Taxable Income**(after deductions and exemptions)
- **Total Tax Payable**
- **Tax Already Paid** (TDS from salary slip)
- **Net Tax due or Refund Amount**

2. Recommended ITR form:

- ITR 1
- ITR 2
- ITR 3

3. Pre-filled ITR form:

- **Personal Information**
- **Income Details**
- **Deductions and Exemptions**
- **Bank Details**
- **Verification Section**

Proof of Concept & Feasibility Highlights

- **Data Collection & OCR Extraction**
 - Concept: Users upload income-related documents, OCR extracts text.
 - Feasibility: Tesseract OCR, Google Vision API, AWS Textract for structured/unstructured data.
 - **Data Preprocessing & Validation**
 - Concept: Clean, format, and validate extracted data via APIs (PAN, Aadhaar).
 - Feasibility: NLP for text cleaning, government APIs for verification, cross-checking figures.
 - **AI-Based Classification & Auto-Fill**
 - Concept: ML models classify income, deductions & auto-fill ITR fields.
 - Feasibility: Supervised learning for classification, rule-based tax-saving suggestions.
 - **ITR Type Selection (Auto-Suggestion)**
 - Concept: Suggests ITR form (ITR-1 to ITR-4) based on income sources.
 - Feasibility: Decision tree logic, AI-based recommendations.
-

Proof of Concept & Feasibility Highlights

- **Tax Calculation & Optimization**
 - Concept: Computes taxable income, applies deductions, selects the best tax regime.
 - Feasibility: Rule-based tax calculations, Old vs. New regime comparison.
 - **Filing & E-Verification**
 - Concept: Auto-fills ITR, allows review, submits electronically with e-verification.
 - Feasibility: Tax portal API/RPA automation, Aadhaar OTP, Net Banking verification.
 - **Completed ITR Filing & Acknowledgment**
 - ITR submission proof generated for records.
 - PDF acknowledgment receipt for future reference.
-

Thank you!
