 DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT AND RESEARCH	Dr D Y Patil Pratishthan's Dr. D.Y. Patil Institute of Engineering, Management and Research, Akurdi, Pune	DI No.: ACAD/DI/72
Academic Year: 2025-26	Weekly Report Format for Internship	Revision : 00 Dated : 20/11/2019
Term - II	Department : Computer Engineering	Date of Preparation : 14/02/2026

Weekly Report Format for Internship

Roll No: 23101

Name of the Student: Ruhan Saad Dave

Name of the Company: CODTECH IT SOLUTIONS PVT.LTD

Domain of Internship: Artificial Intelligence

Name of the Internal Guide: Akanksha Kulkarni

Name of the External Guide: Neela Santhosh Kumar

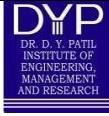
Duration of Internship: 03 Jan 2026 to 14 Feb 2026

Week-I Dates: 03/01/2026 to 10/01/2026

Description of Work Done Till Date (Week 1):

Project Initiation and Planning

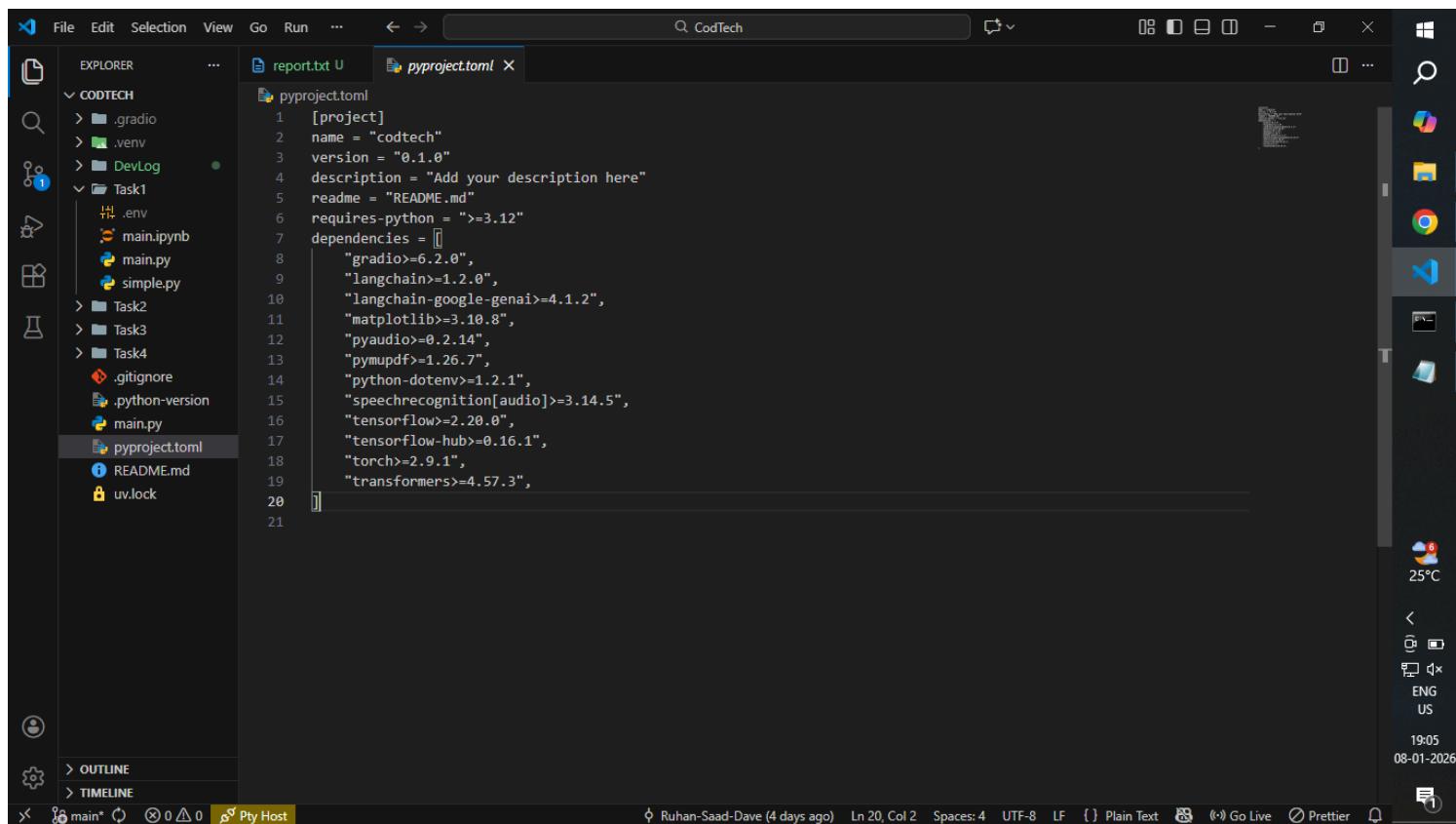
- Received and reviewed the four main tasks for the internship: Text Summarization Tool, Speech Recognition System, Neural Style Transfer, and a Generative Text Model.
- Set up the complete development environment, including installing necessary libraries such as ‘uv’, ‘gradio’, ‘transformers’, ‘torch’, ‘PyMuPDF’, ‘SpeechRecognition’, ‘openai-whisper’, ‘langchain’, and ‘langchain-google-genai’.
- Conducted initial research and formulated a plan of action for each task.
- **Task 1:** Planned to use the Hugging Face ‘pipeline()’ for summarization with a command-line interface, with potential enhancements like file reading and a Gradio UI.
- **Task 2:** Decided to use the ‘SpeechRecognition’ library and Gradio for the user interface, with research into multilingual support.
- **Task 3:** Began research on Neural Style Transfer, understanding the core concept of

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applying a style image to a content image.

- **Task 4:** Planned to build a conversational AI using LangChain, Google Gemini, and a Gradio interface to maintain chat history.

Supporting Documents:



```

[project]
name = "codtech"
version = "0.1.0"
description = "Add your description here"
readme = "README.md"
requires-python = ">=3.12"
dependencies = [
    "gradio>=6.2.0",
    "langchain>=1.2.0",
    "langchain-google-genai>=4.1.2",
    "matplotlib>=3.10.8",
    "pyaudio>=0.2.14",
    "pymupdf>=1.26.7",
    "python-dotenv>=1.2.1",
    "speechrecognition[audio]>=3.14.5",
    "tensorflow>=2.20.0",
    "tensorflow-hub>=0.16.1",
    "torch>=2.9.1",
    "transformers>=4.57.3",
]

```

Student Sign

Internal Guide Sign