DYP 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-III Dates: 17/01/2026 to 24/01/2026

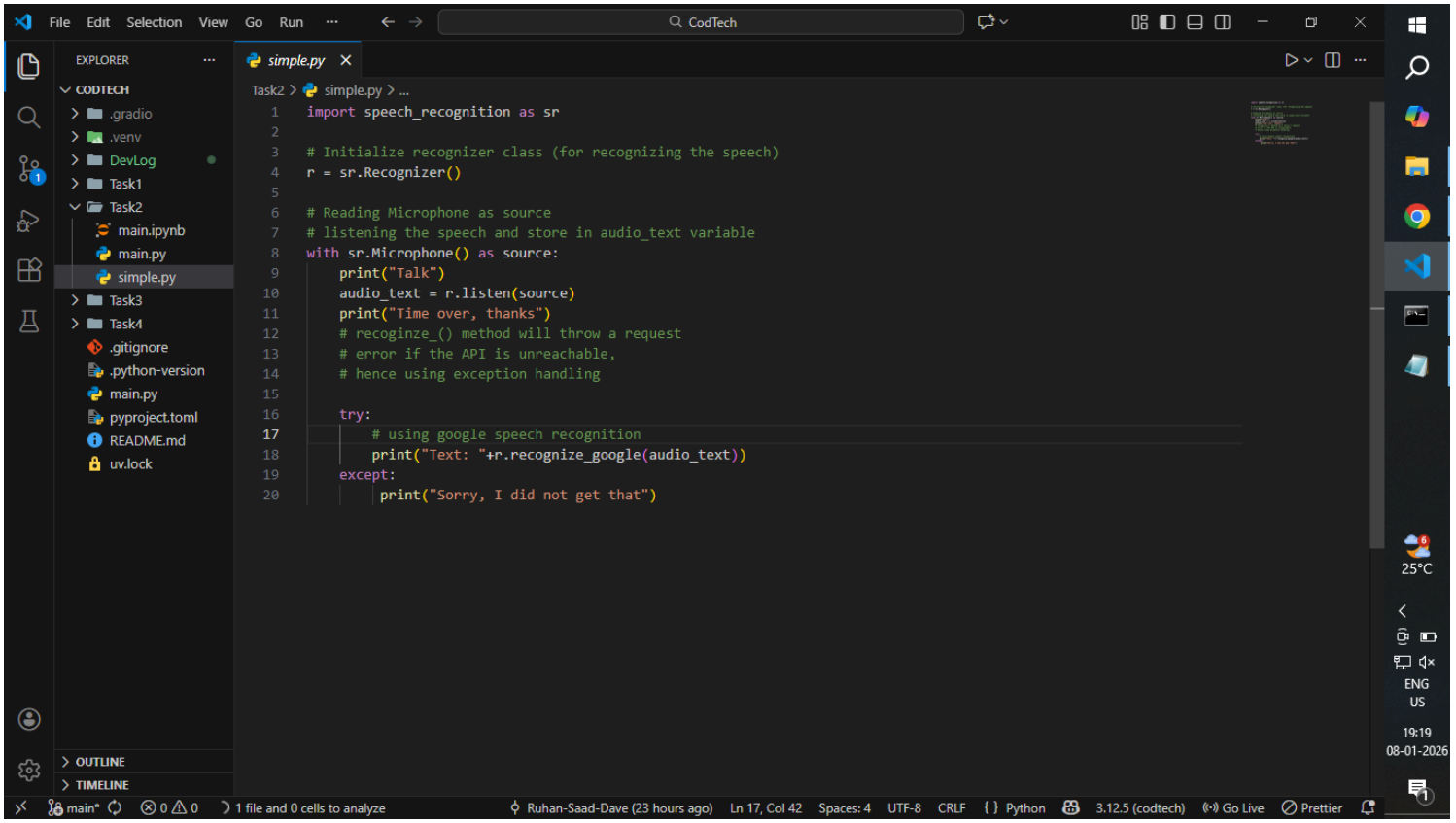
Description of Work Done Till Date (Week 3):

Task 2 & 4 - Speech Recognition and Text Generation (Initial Versions)

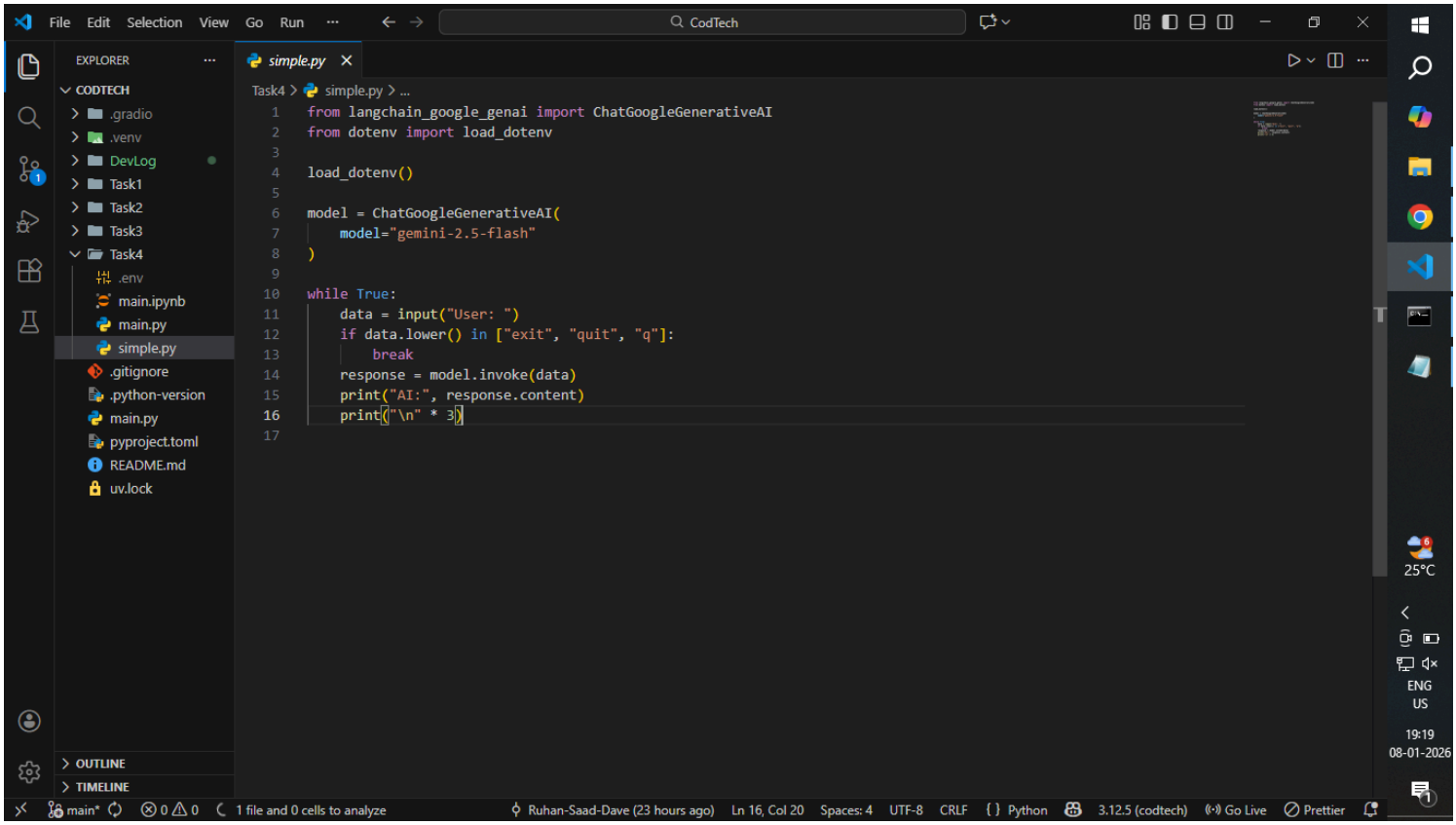
- Task 2 (Speech Recognition):
  - Implemented a basic Speech-to-Text system using the 'SpeechRecognition' library.
  - Created a simple script that successfully transcribes spoken words from an audio source.
- Task 4 (Generative Text Model):
  - Developed the initial version of the generative text model.
  - Integrated the LangChain framework with the Google Gemini API (gemini-2.5-flash).
  - Implemented a feature for continuous chat, allowing the model to remember conversation history
  - Used 'python-dotenv' to securely manage the API key.

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**

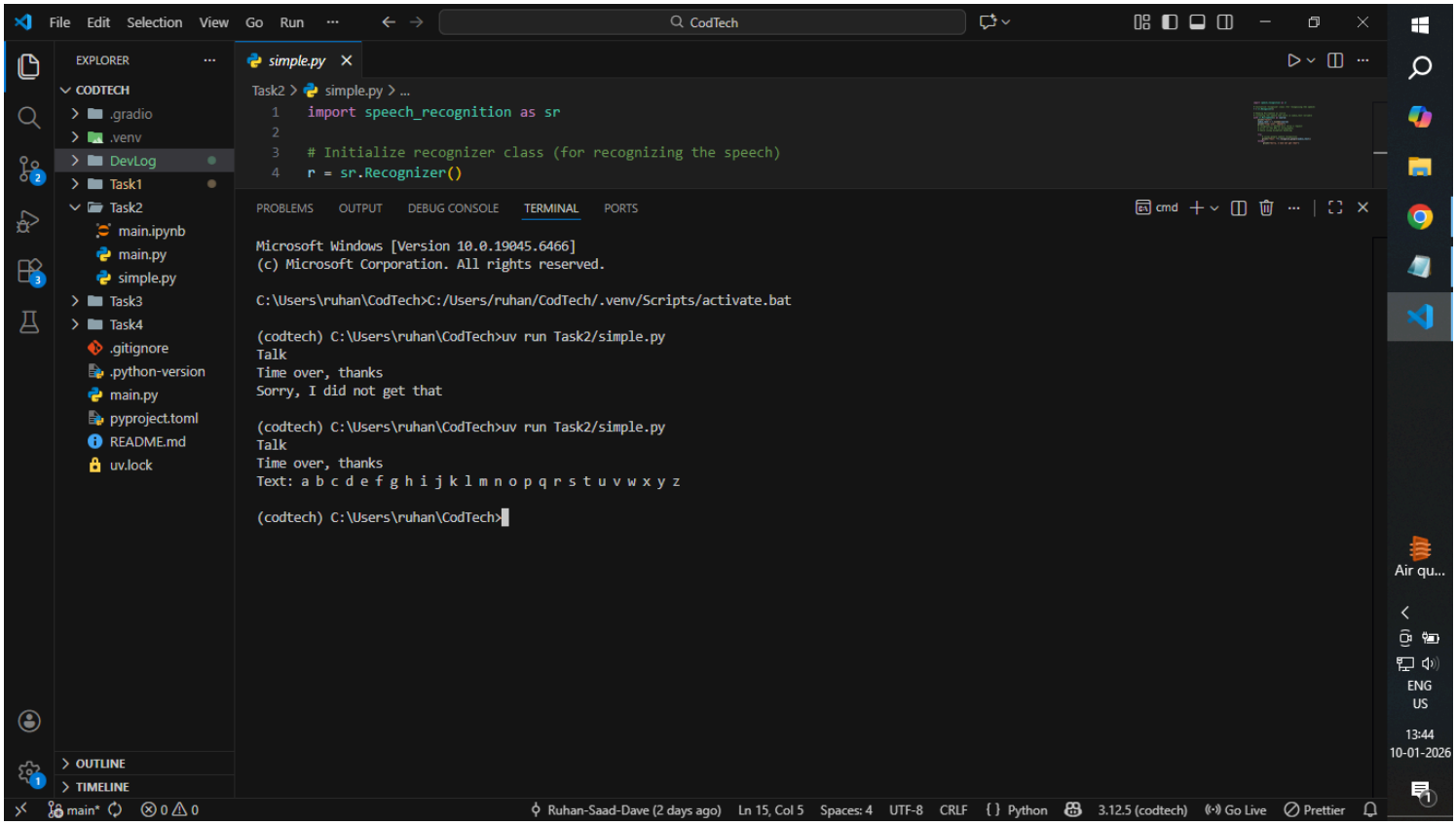
Supporting Documents:



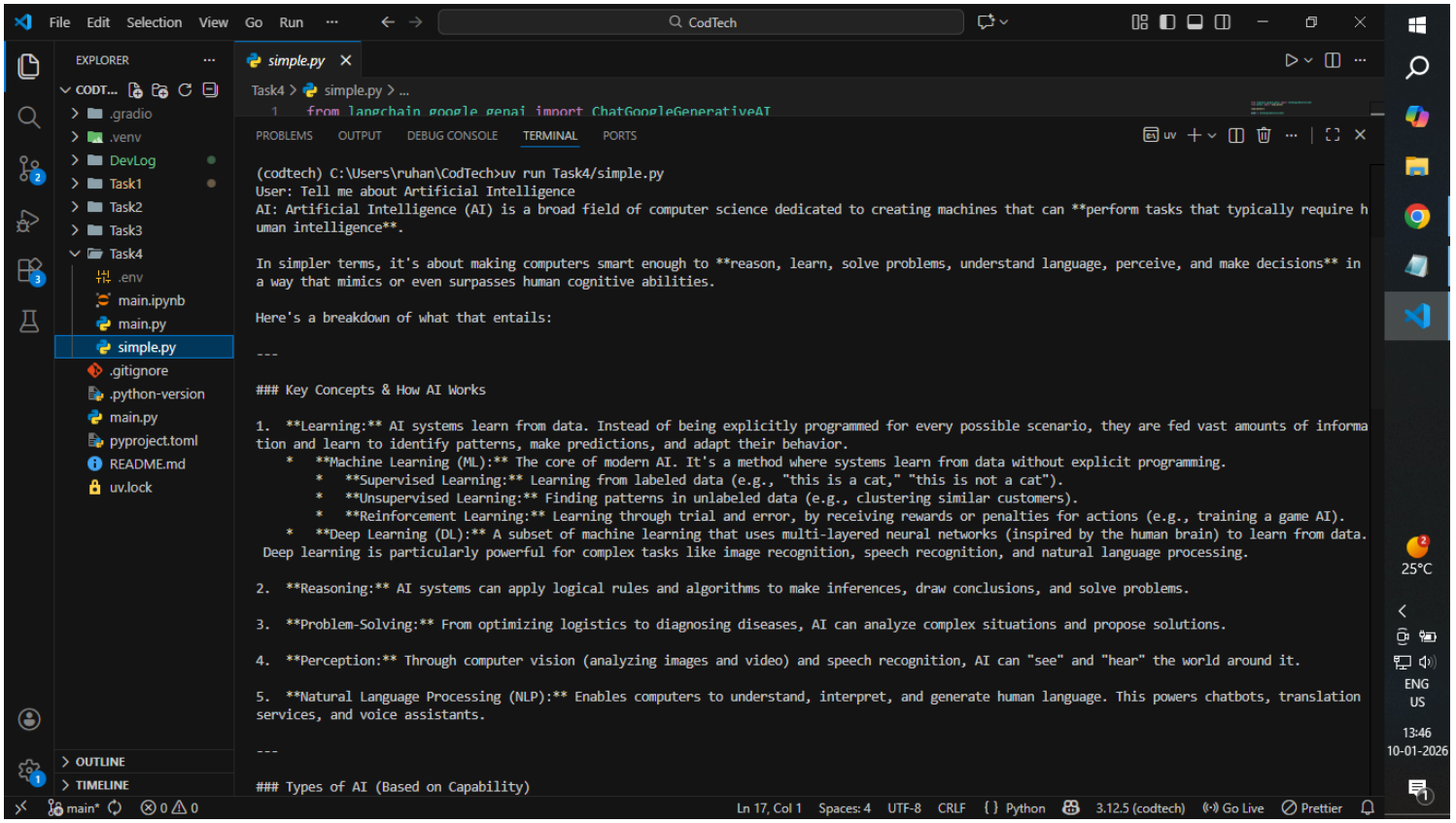
DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT AND RESEARCH	**Dr D Y Patil Pratishthan's** **Dr. D.Y. Patil Institute of Engineering, Management and Research, Akurdi, Pune**	DI No.: **ACAD/DI/72**
Academic Year: 2025-26	**Weekly Report Format for Internship**	**Revision : 00 Dated : 20/11/2019**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



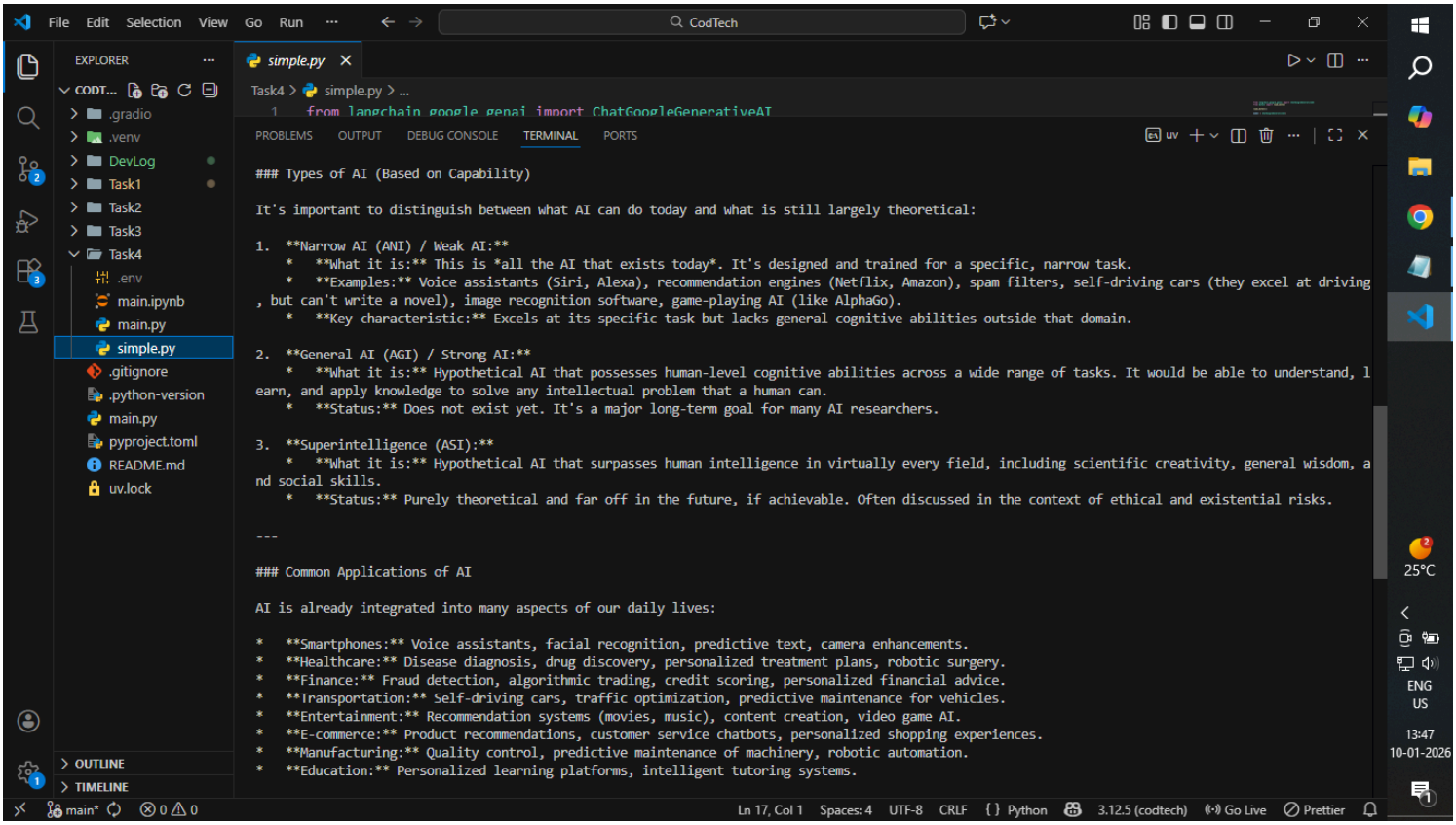
DR. D. Y. PATIL INSTITUTE OF ENGINEERING, MANAGEMENT AND RESEARCH	**Dr D Y Patil Pratishthan's** **Dr. D.Y. Patil Institute of Engineering, Management and Research, Akurdi, Pune**	DI No.: **ACAD/DI/72**
Academic Year: 2025-26	**Weekly Report Format for Internship**	**Revision : 00 Dated : 20/11/2019**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



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**



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**



Student Sign **Internal Guide Sign**