# AI Regional Interview Trainer (Bhojpuri & Maithili)

**1. Project Title**

AI-Powered Job Interview Coach in Bhojpuri & Maithili

**2. Team Details**

**Team Lead**: B. Jyothi Swarupa (4516)  
**Team Members**:

* B. Geetanjali (4508)
* Venkat (4561)
* Pavani (4535)

**3. Introduction**

Many students from rural areas don’t get proper interview coaching.  
Most training platforms are only in English or Hindi.  
Students from Bhojpuri and Maithili regions face difficulties because of language barriers.  
This project creates an AI-powered Interview Coach that asks questions, evaluates answers, and provides feedback in Bhojpuri and Maithili.

**4. Objectives**

* Provide interview training in Bhojpuri and Maithili.
* Simulate mock interviews with both voice and text.
* Deliver instant AI-based evaluation and feedback.
* Show user progress in a dashboard.

**5. Problem Statement**

Existing interview platforms work mostly in English/Hindi.  
Rural students find it difficult due to high coaching costs, language barriers, and lack of resources.

**6. Proposed Solution**

We will build a React + AI-based web app.  
The user can attend mock interviews in Bhojpuri or Maithili.  
AI will evaluate answers for fluency, clarity, and relevance.  
Feedback will be provided in both the regional language and English.  
Scores and progress will be stored and shown in the dashboard.

**7. Features**

* User login and signup
* Interactive interview panel (Q&A in Bhojpuri/Maithili)
* Voice and text input for answers
* AI-based evaluation with confidence, fluency, and clarity scores
* Feedback in Bhojpuri/Maithili and English
* Dashboard with progress graphs

**8. Technology Stack**

* **Frontend**: React.js, CSS
* **Backend**: Python (Flask / FastAPI)
* **Database**: MongoDB and Firebase
* **AI/ML**: Vosk /Whisper, HuggingFace Transformers / spaCy (NLP evaluation)
* **Other Tools**: GitHub (version control), Streamlit (optional demo), Figma (UI design)

**9. System Design**

Flow: React UI → Flask → Speech/Text Input Processing → NLP Model → Evaluation & Feedback → MongoDB storage → Results displayed in React Dashboard.

**10. Implementation Steps**

1. Create React frontend (Login, Interview Page, Dashboard).
2. Develop Flask backend .
3. Connect MongoDB/Firebase for storing user data and scores.
4. Integrate Bhojpuri/Maithili speech recognition.
5. Build AI evaluation model.
6. Show scores and feedback in dashboard with graphs.

**11. Challenges Faced**

* Collecting Bhojpuri and Maithili datasets.
* Maintaining speech-to-text accuracy for regional languages.
* Keeping UI lightweight for users with low internet speed.

**12. Results / Output**

* Users can practice interviews in Bhojpuri/Maithili.
* AI provides instant evaluation and feedback.
* Dashboard shows performance and progress over multiple sessions.

**13. Future Scope**

* Add more regional/tribal languages.
* Introduce video-based interview practice.
* AI-powered resume builder and job recommendation system.

**14. Conclusion**

This project is a unique React + Python web app that supports Bhojpuri and Maithili.  
It bridges the gap in job preparation for rural students and helps them build confidence for real interviews.

**15. References**

* React.js Official Documentation
* Flask & FastAPI Documentation
* HuggingFace Transformers
* Research papers on Bhojpuri/Maithili NLP