



Job Description

Senior AI Engineer: PraDigi, a Pratham Initiative

About Pratham International

Pratham International is a US 501(c)(3) established to support learning innovations for children and youth in contexts across the globe. We enable the adaptation and spread of proven and scalable education solutions pioneered in India by Pratham Education Foundation to contexts across the global south through programming and technical assistance tailored to local realities.

Through the Pratham Shah PraDigi Innovation Centre (PraDigi), Pratham International also seeks to create technology innovations for low-resource communities, and support models aimed at learning for school, work, and life for children and youth. We work on several cutting-edge projects in the domain of Generative AI, Automatic Speech Recognition, and Natural Language Processing.

The team's innovative technology products include the **Anytime Testing Model (ATM)**, an AI-enabled question generation and grading system that allows learners to be assessed on any topic, anytime; **PadhAI: Reading Assessment App**, which uses advanced speech recognition to evaluate children's reading fluency in English and eight Indian languages; and a suite of LLM-powered chatbots designed for diverse learning contexts: from BaalSakhi for early childhood care, to a skilling interview bot for youth employment readiness, and OCR-based analysis tools that digitize and assess student work at scale.

At Pratham International, we build for the long term. Whether it's ensuring products are truly accessible across rural India and the global south through languages, building datasets to ensure context and accuracy for products, or gathering feedback from the field.

Description of the Role

Pratham International, through its wholly-owned subsidiary in India (PULS Pvt. Ltd.), is looking to hire a Senior AI Engineer for the PraDigi Initiative.

The **Senior AI Engineer** position is ideal for driven and enthusiastic individuals with a passion for AI and Machine Learning, offering the chance to apply advanced Machine Learning and Deep Learning techniques to tackle education-related challenges in diverse contexts across the Global South.

The SeniorAI Engineer will support with:

- **AI/ML Development and Deployment:** Collaborate to develop and implement AI techniques tailored to educational goals and objectives into products
 - Use Cloud AI platforms like Azure, AWS, and Google's Vertex AI Studio for scalable and secure AI deployments
 - Well versed with LLM tools, and open to integrating emerging technologies swiftly into products if the usecase requires it
- **Documentation:** Document processes, methodologies, and findings to ensure reproducibility
- **Feature Development:** Support the deployment of AI-driven features and functionalities
- **Data Analysis:** Analyze and interpret model output to identify patterns, strengths, and

weaknesses using evaluation metrics like word error rate, perplexity, and BLEU scores

- **Creativity and innovation:** Tackle diverse and complex problems with creative execution
- **Research & Communication:** Keeping up to date with the latest research and the ability to present findings to a variety of audiences

Desired Experience and Qualification

We are looking for people who have worked on Data Science projects using machine learning and deep learning and have an orientation towards research.

- A Degree in any Mathematics/Computer Science/Data Science or related STEM field
- 2–3 years of full-time experience working in an AI/ML role
- **Generative AI:** Practical experience in using Generative AI endpoints for applications like chatbots, content generation, and OCR, and integrating APIs for text, image, or speech generation
- **RAG Frameworks:** Proficient in implementing Retrieval-Augmented Generation frameworks to enhance AI response accuracy and relevance.
- **Prompt Engineering:** Ability to create effective prompts to guide AI models and run iterative experiments to optimize prompt quality
- **Cloud AI Platforms:** Proficient in deploying and managing ML models using AWS Bedrock, Azure OpenAI, and Google Vertex AI Studio

Why join us?

- **Impactful Work:** Make a real difference in education for low-resource communities across different geographies across the global south
- **Cutting-Edge Technology:** Apply advanced machine learning techniques to solve educational challenges across a large, scalable user base
- **Growth Opportunities:** Continuously learn and grow in the fields of AI and ML
- **High-Calibre Team:** Work with top professionals who have gone on to start successful startups and attended premier universities like MIT, Harvard, INSEAD
- **Inclusive Culture:** Join a diverse, collaborative team that values innovative thinking

Employment Details

- **Contract Type:** Full-Time Employment
- **Date of Joining:** Immediate
- **Location:** Hybrid, India-based
- **Remuneration:** As per the candidate's experience and skill sets

To apply

- **Fill out the form attached [here](#)**
- Shortlisted candidates will be contacted for further rounds
- Please refer to [this](#) Guidance on Candidates AI Usage by Anthropic to understand how to present yourself to Pratham International effectively

Pratham International is an Equal Opportunity Employer

We are dedicated to creating a diverse and inclusive workplace. We welcome applications from all qualified individuals, regardless of race, gender, disability, or any other legally protected status.