

## Senior Associate - AI/ML, NLP and GPT Engineer

### About VigyanShaala

VigyanShaala is a multiple award-winning organization whose work is internationally recognized by G20, Department of Science and Technology India, NITI Aayog, IIM Bangalore, and Centre for Global Equality, Cambridge, UK, Falling Walls Berlin, Nature London. VigyanShaala's founders, board, mentors, and supporters are alumni of the top 0.1% of Global Universities, working to create deep meaningful systemic changes at scale. We aspire to be the leading execution and policy oriented STEM non-profit in India within the coming 5 years.

We believe everyone should have the opportunity to create a better world through science and we are on a mission to enable the innovators of tomorrow to achieve their dreams by bringing science, technology, and learning to their doorstep today. Our flagship She-for-STEM initiative is scaling with international presence and is an internationally award-winning initiative. Here we nurture Undergraduate Women in STEM. Our deeper intervention of Rural STEM Champions Program we build community labs in remote areas, primarily in the Himalayas and nurture bright STEM undergraduates from marginalized backgrounds as Community Champions. Join us in the next revolution in Science

### About the Role:

This is a **Full Time** Opportunity in **Pune**. We are looking for a Dynamic and passionate team member with a proven background in AI/ML modelling, NLP models, GPT-3.5/4, and Data Handling. Your main role will be developing, implementing, and managing chatbot and artificial intelligence (AI) capabilities through WhatsApp and an App platform. Training GPT models for Career Mentoring, Guidance, and provide personalized assistance to fellows from various backgrounds.

At VigyanShaala we want all our FTEs to dream. The dream for this role is enhancing user experiences, driving engagement, and creating a habit-forming product. A product that unlocks and accelerates their careers, opens up opportunities for students from marginalized communities and create complete change.

The Path to the Dream would require the following actions you may have to take:

- Train in AI/ML models especially experience with NLP models (GPTs, Langchain, BERT, Alpaca)
- Lead the design, development, and implementation of GPT-powered chatbots
- API integration of GPT and NLP models with WhatsApp and VigyanShaala App
- Refine the above language models for STEM Career mentoring and guidance and other solutions as they emerge
- Connect to backend SQL databases with realtime data updates and analytics for the Monitoring and Evaluation Team
- Design and Develop prompts
- Supervised and Unsupervised learning
- Stay current with the latest developments in AI and Education Training research. Document ML processes and keep abreast of developments in Machine Learning.
- Initial setup of a WhatsApp Bot. Define user flows, conversation trees, and chatbot functionality to address specific business objectives and user needs for quick ROI
- Define and track key performance indicators (KPIs). Utilize analytics tools to measure user engagement, conversion rates, and other relevant metrics.
- Collaborate with cross-functional teams, to design, develop, and deploy chatbot solutions

- Documentation and Process Creation- You will build the system from start and document the process with standard operational protocols.
- Preferably someone who understands and feels passionate about the cause

### What we would prefer from our Applicants:

- Starting the role at the earliest possible is a huge advantage
- Bachelor's or Master's degree in Computer Science, Artificial Intelligence, Machine Learning, or a related field.
- Experience working with large-scale conversational AI models, prompt design, including ChatGPT, Lex or Rasa is a huge plus.
- Solid understanding of AI concepts. Proficiency with deep learning frameworks (such as PyTorch, JAX, or TensorFlow) and deep learning architectures
- 3+ Years of experience with natural language processing methods, including text mining, conversational AI, or leveraging large language models
- 3+ years of experience with designing, building, and executing statistical models and developing ML algorithms, including supervised, unsupervised, or reinforcement applications
- Strong analytical and problem-solving skills, with the ability to analyze user data, draw insights, and make data-driven decisions.
- Excellent communication and collaboration skills to work effectively with cross-functional teams and stakeholders.
- Detail-oriented with a focus on delivering high-quality, user-centric products.
- You are expected to bring your own laptops – we can provide refurbished laptops in other circumstances.

### What we offer:

- Creativity and autonomy of a start-up environment with exciting stakeholders located globally.
- Inspiring colleagues with an opportunity to build processes from ground up.
- Access to a Global network that is driven to create opportunities in STEM for the most marginalized.
- You will be a growth partner, someone who will grow with the organization by constantly enhancing your own skills and competencies.
- An emerging social start-up venture with a dynamic working environment and tremendous scope for personal and professional growth.
- Our products shift regularly based on customer feedback, hence change happens fast and you will have a say on pivoting products quickly. Your work will create change right in front of you.
- The pay range is from 8LPA to 10 LPA CTC. In case of Exceptional candidates with experience, more senior positions can be offered from 10 - 12 LPA

### How to Apply:

For Applying to the position please Apply here through this form and upload your Cover Letter, CV, Motivation, LinkedIn Profile, and work sample if any:

<https://forms.gle/g4hfw7W6q2beKqxLA>

If you have any opinions or other queries please email to:

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