

### 3. Associate AI Engineer

Field	Details	
Role	<b>Associate AI Engineer</b> <b>(Engagement initially on intern-basis)</b>	
Number of Positions	05	
Qualifications	<b>Minimum Requirement:</b>	
	<b>AI Intern</b>	<b>Associate AI Engineer</b>
	Last semester of Bachelor's or Masters degree in Science, Technology, Engineering, or Business Administration or relevant quantitative field (economics, statistics etc) from a recognized university/institute	Bachelor's or Masters degree in Science, Technology, Engineering, or Business Administration or relevant quantitative field from a recognized university/institute
Experience	<b>Minimum Requirement:</b>	
	<b>For AI Intern</b>	<b>Associate AI Engineer</b>
	<ul style="list-style-type: none"> <li>On-site professional internship in AI/ML undertaken in a company. An academic internship will not be considered.</li> <li>Demonstrated mini-projects using LLM APIs (chatbot, doc-QA, summariser) which are deployed in real-world.</li> <li>At least one link to working prototype of AI/ML/LLM app/tool built solo by applicant (proven by sharing link to</li> </ul>	Successfully executed an AI Internship for 4 months in NHAI, and based on the evaluation by the Selection Committee <b>Preferrable Skills:</b> <ul style="list-style-type: none"> <li>Demonstrated mini-projects using LLM APIs (chatbot, doc-QA, summariser), preferably deployed in real-world and professional settings.</li> <li>Understanding of Prompt-engineering patterns (CoT, RCI, self-consistency)</li> <li>Quick RAG builds with LangChain / LlamaIndex and open-weight models (e.g., Llama 3, Mistral 7B).</li> </ul>
Field	Details	
	deployed tool that works on clicking). <ul style="list-style-type: none"> <li>Demonstrable projects with Python, Git, and REST fundamentals (proven by sharing Github repo)</li> </ul>	<ul style="list-style-type: none"> <li>Basic eval with ragas / LLM-based graders; logging prompt-response pairs for audit.</li> <li>Bonus: exposure to vector DBs (FAISS, Milvus) or simple CV tasks.</li> <li>Classical AI/ML projects is a strong plus.</li> </ul>

<b>Skill set</b>	<ul style="list-style-type: none"> <li>- Demonstrated mini-projects using LLM APIs (chatbot, doc-QA, summariser) preferably deployed in real-world and professional settings.</li> <li>- Understanding of Prompt-engineering patterns (CoT, RCI, self-consistency)</li> <li>- Quick RAG builds with LangChain / LlamaIndex and open-weight models (e.g., Llama 3, Mistral 7B).</li> <li>- Basic eval with ragas / LLM-based graders; logging prompt-response pairs for audit.</li> <li>- Bonus: exposure to vector DBs (FAISS, Milvus) or simple CV tasks.</li> <li>- Classical AI/ML projects is a strong plus.</li> </ul>
<b>Proposed Responsibilities</b>	<ul style="list-style-type: none"> <li>- Convert pain-points into working LLM demos and POCs.</li> <li>- Curate reusable prompt &amp; chain libraries for the Cell.</li> <li>- Collaborate with AI experts and Full-Stack on scaling successful prototypes.</li> <li>- Utilize Python to build robust, scalable data pipelines for ingesting diverse datasets relevant to AI modeling (e.g., FASTag, drone imagery, sensor data).</li> <li>- Develop Python-based scripts for extensive data cleaning, preprocessing, transformation, and validation to ensure data is optimized for machine learning applications.</li> <li>- Collaborate with the AI/PM specialist to perform feature engineering, using Python to create new data features from raw data to improve model performance.</li> <li>- Automate AI workflows, including data extraction, preparation, and model-feeding processes, using Python-based tools and frameworks.</li> <li>- Directly support the modeling process by providing clean, structured datasets and assisting in the initial stages of model development and validation.</li> <li>- Manage and maintain the data environments required for AI development, ensuring data quality and accessibility.</li> <li>- Liaise with NHA1 stakeholders to understand and define data requirements specifically for planned AI-driven outcomes</li> </ul>