

# Ahmad Aiman Bin Shahrir

Aiman Shahrir

## Artificial Intelligence (A.I) Engineer

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### ABOUT

I am a passionate Artificial Intelligence (AI) Engineer, have a strong technical foundation in data science and new technology through hands-on experience and projects.

I am well-equipped in programming with relational databases and Python and has applied my expertise in data preparation, analysis, and visualization to uncover insights from complex datasets. I am proficient in both supervised and unsupervised machine learning algorithms along with deep learning techniques.

I am eager to use my skills to drive innovative AI solutions that improve decision-making and business outcomes for a forward-thinking company and committed to leveraging my skills to drive data-driven strategies, streamline processes, and develop impactful AI applications that meet the evolving needs of the industry.

### TECHNICAL SKILL(S)

- Python
- C/C++
- Kafka
- Microsoft Azure
- Docker
- MySQL, PostgreSQL
- Large Language Model (LLM)
- Retrieval Augmented Generation (RAG)
- Tensorflow
- Keras
- Numpy
- Matplotlib
- Linux
- Exploratory Data Analysis (EDA)
- Natural Language Processing (NLP)
- Prompt Engineering
- Vector Database: Pinecone, ChromaDB, Qdrant
- Scikit-learn

### PROFESSIONAL EXPERIENCE(S)

Apr. 2024 –  
Oct. 2024

#### Artificial Intelligence (A.I) Engineer

Userdata Sdn Bhd | Kuala Lumpur

- **Vector Database Development:** Developed a program that utilizes open-source vector database for various company usecase in collaboration with other AI engineers.
- **Tools: ChromaDB, Linux VM**
- **Model Deployment:** Researched, deployed and fine-tuned new open-source embedding models on Linux Virtual Machine (VM) for company usecase and increases general document retrieval accuracy up to 90%.
- **Tools: Huggingface, Linux VM**
- **Prompt Engineering:** Created prompts for specific domain understanding by utilizing Chain-of-Thoughts (CoT), Chain-of-Validators (CoV) and step-by-step technique to reduce hallucinations, resulting in a more accurate business description.
- **Autonomous Data Asset Project:**
  - Streamlined a data pipeline from different relational databases through Kafka, for data-preprocessing, which results in reduces crash issues and datatype mismatch.
  - Built a data-to-insight pipeline in which, utilizes client's metadata to generate business domain descriptions using on-premise large language model (LLM) and stored into vector database, ChromaDB.
  - Built an intent-to-SQL pipeline in which, utilizes on-premise LLM to generate relevant queries for data visualization.
  - Deployed a vector database to store documents (i.e business descriptions) and utilizes RAG to match user intent with the documents.
  - **Tools: LLM, Linux VM, MySQL, PostgreSQL, Kafka, ChromaDB**

	<ul style="list-style-type: none"> <li>• <b>Clustering Project:</b> <ul style="list-style-type: none"> <li>○ Applied Principal Component Analysis (PCA) and k-Means clustering to segment customers based on their spending behavior, enabling targeted cross-selling of products aligned with customer profiles.</li> <li>○ <b>Tools: MySQL, Plotly, Matplotlib, Scikit-learn</b></li> </ul> </li> </ul>
<i>Oct. 2023 – Jan. 2024</i>	<b>Junior Data Analyst</b> <i>Talentlabs   Kuala Lumpur, Malaysia</i> <ul style="list-style-type: none"> <li>• Extensive hands-on experience in artificial intelligence (AI), data analytics, and data science.</li> <li>• Developed skills in data preparation, manipulation, analysis, and visualization, with a proven ability to extract valuable insights from complex datasets.</li> <li>• Developed projects using supervised and unsupervised machine learning algorithms, including k-means, kNN, Decision Tree, Random Forest, and PCA.</li> <li>• Applied deep learning techniques, such as CNN and RNN, to tackle projects involving time-series data and computer vision.</li> </ul>
<i>Jun. 2022 – Sep. 2022</i>	<b>Design &amp; Costing Engineer   Intern</b> <i>Tera VA Sdn. Bhd.   Putrajaya, Malaysia</i> <ul style="list-style-type: none"> <li>• Designed a calculation sheet for engineers to determine the size of cables and cable trunking based on their engineering properties using Microsoft Excel.</li> <li>• <b>Project(s):</b> <ul style="list-style-type: none"> <li>○ Managed to be a part of a project for New Era University College, Kajang for a 40kW sized through amending the drawings of the solar panels on their rooftop.</li> </ul> </li> </ul>
<b>EDUCATION</b>	
<i>Sep. 2023 – Jan. 2024</i>	<b>Certified Associate in Data Analytics @ K-Youth Development Programme</b> <i>Talentlabs   Kuala Lumpur, Malaysia</i> <ul style="list-style-type: none"> <li>• <b>Key Subjects:</b> (Statistics for Data Analysts, Data Analytics with Python, Exploratory Data Analysis, Predictive Analytics, ETL)</li> </ul>
<i>Sep. 2019 – Aug. 2023</i>	<ul style="list-style-type: none"> <li>• <b>B.Eng. in Electrical</b>  <i>Universiti Sains Islam Malaysia   Negeri Sembilan, Malaysia</i>  CGPA: 3.36/4.0   (Semester 7/ Semester 8)  <b>Key Achievement</b>  Achieved Dean's list in Semester 3 (3.62)</li> </ul>
<b>ACHIEVEMENT(S)</b>	
<b>2023</b>	<b>CHESS Symposium 2023 – Innovation Pitch Competition</b> <i>Participant</i> <ul style="list-style-type: none"> <li>• Submitted an entry for the competition entitled “Predictive Electrical Consumption for Building Energy Management using XGBoost” under the category of Sustainability.</li> </ul>
<b>2022</b>	<b>Electrical Power System Simulation Competition (EPSSCOM) 2022</b> <i>Best Effort Award</i> <ul style="list-style-type: none"> <li>• Designed a 50MW Large Scale Solar Farm using PVsyst.</li> <li>• Simulated the design for power analysis study using Power System Simulator for Engineering (PSSE).</li> </ul>