

## AKTHAR NAVEED V

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Kozhikode, Kerala, India

### Summary

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With five years of immersion in AI. I bring a robust blend of expertise in mathematics, Generative AI, and Engineering, supported by a strong theoretical background. My adept leadership, coupled with sharp problem-solving skills, complements my deep understanding of Artificial Intelligence. Furthermore, my proficiency in research enhances innovation, ensuring impactful solutions in dynamic AI landscapes. This unique skill set primes me for success in research-focused roles within the AI sphere.

### Experience

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#### AICUBES

Muscat, Muscat/Oman

aicubes, an innovative startup in Oman, is dedicated to advancing generative AI technologies, aiming to refine and optimize their capabilities. By catalyzing advancement and fostering innovation, Aicubes contributes to implementing generative AI solutions within the sultanate, driving progress in this dynamic field

Machine Learning Engineer (Founder and CEO)

DEC 2022 - FEB 2024

- Engineered a Real-time Election Analysis pipeline using Debezium Kafka Pyspark, providing live insights during the Oman Shura election. Implemented Transformer prediction models for 63 wilayat, employing 4xA10 GPUs to forecast next-hour polling percentages, gender distribution, and age interval distribution.

Analyzed voting data from ministries over the past 6 years, extracting valuable insights. On October 29, 2023, during the election, data was streamed using Kafka from the database connected via Debezium and processed using Pyspark. The processed data underwent forecasting for the upcoming polling count, gender distribution, and age distribution.

- Stable Video Diffusion: prepared training dataset of 3D pose, DW pose, and image frames from large Video datasets, integrated 3D Unet and Controlnet, and developed training code for multi-GPUs and multi-node GPUs cluster. trained models using a cluster of 4-A100 on a single machine as well as 2 machines of 2 H100 GPUs.
- LLM finetuning: Finetuned and trained Falcon-1B using custom code with proprietary data, and successfully deployed the model.

### Education

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**Cochin University of Science and Technology, Cochin**, August 2018-march 2022

- B. Tech computer science Engineering
- Graduated with First Class with Distinction
- CGPA: 8.5/10

### Research Publication

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- ExoSGAN and ExoACGAN: Exoplanet Detection using Adversarial Training Algorithms
- <https://arxiv.org/abs/2207.09665>

## Certifications and Training

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1. **deeplearning.ai(Coursera), online-deep learning specialization:** Sequence Models, Improving Deep Neural Networks: Hyperparameter tuning, Regularization, and Optimization, Neural Networks and Deep learning. Convolutional Neural Networks
2. **Udemy,online-Cutting Edge AI: Deep reinforcement learning in Python:** Apply deep learning to artificial intelligence and reinforcement learning using evolution strategies, A2C, DDPG
3. **Udemy,online-advanced AI: Deep reinforcement learning in Python:** The Complete Guide to Mastering Artificial Intelligence using Deep Learning and Neural Networks( Deep Q Learning, A3C)

## Expertise

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- Machine Learning Frameworks: PyTorch, Pandas, Numpy, multi-GPU training, Multinode GPU training
- Generativeai: LLM, latent diffusion, ControlNet, Langchain, accelerate,deepspeed, DDP
- Database: SQL, Redis, Weaviate, Qdrant
- cloud platforms: AWS, Heroku, GCP
- version control: git
- BigData frameworks: Pyspark, Kafka, Hadoop, zookeeper
- web frameworks: Flask, Django, celery
- Leadership, problem-solving, Research, communication.

## Portfolio

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- <https://www.linkedin.com/in/akthar-naveed-921039201/>
- <https://github.com/Aktharnv>

## Language

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- English
- IELTS B2