

# Ashi Mariyam Thomas

ashimariamthomas@gmail.com | +91 9446550879 |  
https://github.com/ashimariyam | linkedin.com/in/ashithomas

## Profile

Passionate AI researcher pursuing M.Tech in Artificial Intelligence, focusing on Deep Learning, Reinforcement Learning, Computer Vision, and Data Science. Doing research in integrating CNNs, GANs, and Vision Transformers for healthcare prediction and diagnosis. Skilled in Python, TensorFlow, Machine Learning, and Data Analysis tools, with hands-on experience in building AI-driven models to solve real-world challenges.

## Skills

### Technical Skills :

- Languages & Web Technologies : Python, C, Java, HTML, CSS
- Database : MySQL
- Development Tools: VS Code, Google Colab, Jupyter Notebook, Replit, Eclipse, Git, GitHub, MATLAB
- Automation & RPA : UiPath (Robotic Process Automation)
- Machine Learning & Deep Learning:
  - Frameworks: TensorFlow, PyTorch, Scikit-learn
  - Models: CNNs, GANs, Vision Transformers, Reinforcement Learning (RL)
  - Techniques: Linear Regression, Classification, Clustering, Generative AI
- Data Science & Analysis:
  - Libraries: Pandas, NumPy, SciPy, Matplotlib, Seaborn
  - Tools: Power BI, MS Excel
  - Concepts: Data Analysis, Data Visualization, Statistics

### Soft Skills :

Communication | Teamwork | Adaptability | Attention to Detail | Project Management

## Projects

1. Alzheimer's Disease Progression Prediction
  - Implemented a predictive model using Recurrent Neural Networks (RNN), GANs and deep learning models like Vision Transformer by using ADNI dataset to analyze Alzheimer's disease progression.
  - Trained on patient datasets and achieved an accuracy of 91% in forecasting cognitive decline stages.
2. Real-Time Audio Filtering using Python
  - Built an AI-based real-time audio filtering system to enhance speech clarity by removing background noise.
  - Utilized signal processing techniques and deep learning models, achieving an improvement of 85% in speech clarity.
3. Streamlined Employee Onboarding Automation using RPA [Jan 2024-April 2024]
  - Tools: UiPath
  - Automated the employee onboarding process, generating personalized offer letters and ID cards for 80+ employees monthly, reducing manual workload.
  - Designed workflows that decreased onboarding time by 10 - 30 hours per month, improving compliance with HR protocols and enhancing efficiency.
4. Kitchen-2-Door: Online Homemade Food Ordering System [Sept 2023 - Nov 2023]
  - Technologies: HTML, CSS, JavaScript
  - Developed an online food ordering system connecting customers with home chefs, streamlining the order process.
  - Integrated payment and delivery modules, enhancing user experience and expanding local food business reach.
5. Flight Booking Price Prediction [Jun 2024- July 2024]
  - Technologies: Python, Pandas, Scikit-learn
  - Conducted Exploratory Data Analysis (EDA) on flight booking data, uncovering key insights on pricing trends.
  - Built ML models using regression algorithms, increasing accuracy in predicting optimal flight prices.
6. Retail Store Student Survey Analysis – Power BI Project [Dec 2024-Jan 2025]
  - Tools: Power BI, SQL
  - Created interactive Power BI dashboards analyzing student purchase behavior across store locations.
  - Implemented conditional formatting in tabular views, developed funnel charts, scatter plots, and restricted data access for user roles.
  - Published reports on Power BI cloud with scheduled refresh every 4 hours, enhancing data-driven decision-making.

## Experience

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- Data Science and Machine Learning Intern – Intellipaat *June 2024 – Dec 2024*
  - \* Developed and implemented machine learning models for data analysis, improving model efficiency
  - \* Conducted data preprocessing and feature engineering using Python, Pandas, and Scikit-learn.
  - \* Designed predictive models for real-world datasets, achieving 80%.
- RPA Intern – ICT Academy (UiPath) *Sept 2023 – Oct 2023*
  - \* Automated repetitive business processes using UiPath, reducing manual effort by 10-30 hours per month.
  - \* Developed and deployed RPA bots for process automation, improving efficiency by 80 -90% time reduction.
  - \* Created workflows for data extraction and validation, enhancing operational accuracy.

## Education

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- Amrita Viswa Vidyapeetham, Amritapuri** *Aug 2024-Jun 2026*  
Master of Technology in Artificial Intelligence
- A.P.J Abdul Kalam Technological University, Kerala** *Oct 2020- Jun 2024*  
Bachelor of Technology in Computer Science & Engineering  
Graduated with Distinction : 8.64 CGPA
- Stratford Public School & Junior College**  
Higher Secondary Education *April 2018*  
CBSE : 80%
- Secondary Education *April 2018*  
CBSE : 92.8%

## Certifications

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- PG Program in DataScience and Machine Learning by **Intellipaat**
- Python for DataScience by **IBM SkillsBuild**
- Data Visualization by **IBM SkillsBuild**
- Data Analysis by **IBM SkillsBuild**
- Introduction to Generative AI by **Google Cloud**
- Fundamentals of Generative AI by SAWiT.AI Learnathon program, **GUVI, HCL Tech**

## Community Engagement & Technical Activities

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- Active Member of **GTech Mulearn** and **IEEE Launchpad Kerala**
- Participant in **SAWiT.AI Learnathon Program** (Fundamentals of Generative AI by GUVI, HCL Tech)
- Finalist in **Tink-Her-Hack 2.0**, one of the largest women-focused hackathons
- **Active Contributor** in the **Google Arcade Facilitator Program**
- **Competitive Programmer** – Regularly solving challenges on HackerRank and LeetCode to enhance problem-solving and algorithmic skills