

# Linuk Perera

MACHINE LEARNING ENGINEER

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## Experience

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**Asha Securities | Intern Fintech R&D | Work-from-Home**

**May 2025 – Present**

- Quantitative Forecast Model Development
- Financial Data Visualization Platform Development
- LLM to handle unique user portfolio queries and financial data Development

**Sri Lankan Airlines | On-the-job Trainee Engineer | BIA**

**June 2024 – January 2025**

- Business Processes Re-Engineering for the Engineering Department
- Design development and implementation of computerized Environmental Monitoring System for Aircraft Engineering facility.
- DFDR/QAR (Blackbox) Readout Facility Development
- Development of solid-state aircraft Onboard Digital Publication Acquisition and Control system.
- Web-based Development for Engineering Digital Publications

## Education

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**Bachelor of Engineering (Hons.) in Electrical and Electronics | University of Hertfordshire**

**2025**

- Chairman of the Institution of Engineering and Technology on Campus NIT Chapter
- Represented Sri Lanka at the Future Technology Congress, Bangalore India
- Active Member of the Rotaract Club of SLTTC
- Active Member of the Toast Masters Club of SLT
- Secretary of the UH Students Council

Undergraduate Coursework:

Intelligent Systems and Robotics; Digital Signal Processing; Microelectronics and VLSI;  
Advanced Power Conversion and Control;  
Electrical and Electronic Theory; Mechatronic Systems; Realtime Systems;  
Project Management and Product Development; Engineering Mathematics i and ii;  
Electrical Engineering and Power Control; Digital Design and Embedded Systems;  
Electronic Communication Systems.

**Professional Graduate Diploma in IT | British Computer Society**

**2024**

Undergraduate Coursework:

Software engineering i and ii; Management Information Systems; Advanced Database  
Management; Computer Services Management; Web Development; Computer Networks (Cisco);  
System Analysis and Design; Professional Issues in IS Practice; IT Project Management;  
Software Development; Computer Network Technology; Information Systems

## Projects

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- **Quantitative Forecast Model for Asha Securities (2025).** Research project utilizing Machine Learning to provide customized stock predictions, improved efficiency of the research department, decision support system. Supervised Machine Learning.
- **LLM & Financial Data Visualization for Asha Securities (2025).** Utilized Machine Learning to visualize and provide customized feedback for users, saved time for investment advisors. Transformers-LLM, PCA, React Framework
- **Neural Network Driven Augmented Reality for Gesture Control (2024-2025).** Research project on Gesture control using Machine Learning. LSTM, Dense-NN, ST-GCN, Python, C#
- **Personal Portfolio Webapp (2024).** Smooth Scroll and Parallax Web app which describes my projects and career accomplishments, contains many animations and micro animations. Next.JS, JS, JSX, SCSS, C++, GASP, Framer Motion, Next.JS React Framework
- **Machine Learning based Trend Analysis WebApp for Wireless Frequency Monitor (2024).** Easy to use webapp developed to predict frequency values and trends based on previous readings by utilizing Machine Learning. Python, CSS, C++
- **Environment Monitoring and Infographics System for Sri Lankan Airlines (2024).** Automation and Infographics system, that collects live data from sensors and generates Infographic Reports and warnings. C++, C, Python, Java, JavaScript, Node.JS, React.JS, HTML, CSS, React Framework
- **Audio to MIDI Converter and Web App (2023-2024).** Python based app that takes MP3 or Wav files as inputs and converts them into MIDI files using Fast Fourier transform integrated into a schemeless user interface, styled using CSS. Python, CSS
- **Wireless Frequency Monitor (2024).** Frequency monitor that measures frequency and wirelessly updates any IOS Android or Windows device using Bluetooth and responds to user requests. C, C++
- **Business Processes Re-Engineering for Sri Lankan Airlines (2024).** Streamlined and re-engineered engineering processes and created a Process Manual. Visio, PowerBI

## Certifications

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### Finance & Quantitative Modeling for Analysts | University of Pennsylvania

- Coursework: Quantitative Modeling, Corporate Finance, Mathematical Modeling

### Financial Markets | Yale University

- Coursework: Behavioral Finance, 25 Assignments

### Machine Learning Specialization | Stanford University

- Coursework: Supervised and Unsupervised Learning and Advanced Learning Algorithms

### Economics of Money and Banking | Columbia University

- Coursework: Banking Systems 11 Assignments and Final Exam

### Computer Science 50 (CS50) | Harvard University

- Coursework: C, Python, SQL, HTML, CSS, GitHub, 9 Problem sets and a Final Project

### Volunteer of the Year | Institution of Engineering and Technology

- In recognition for volunteer activities that I have done across the year 2024

## Skills & abilities

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|--------------------|-------------------------|----------------------|
| • Machine Learning | • Quantitative Modeling | • IOT                |
| • Computer Vision  | • Web Development       | • Project Management |
| • Communication    | • Team Collaboration    | • Problem Solving    |