

# THOMAS MATHEW

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## Software Developer

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### Python | Artificial Intelligence | Machine Learning | Data Analyst

I am a dedicated and passionate software developer with strong proficiency in Python. I take pride in my problem-solving abilities and consistently strive for excellence in my work. I am confident in my skills, adaptable to new challenges, and committed to continuous learning. Currently, I am deepening my knowledge in Artificial Intelligence and Machine Learning to stay ahead in the evolving tech landscape.

## SKILLS

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- **Languages:** Python, Java, C, SQL, HTML
- **Technologies and Tools:** Django, Flask, Pandas, Numpy, Scikit-learn, Seaborn, Matplotlib, Tensorflow, Keras, Scrapy, BeautifulSoup, TextBlob, Sentiment Analysis, API, Git, Jupyter Notebook
- **Machine Learning Algorithms:** Linear Regression, Logistic Regression, K-means, Support Vector Machine, Decision Tree, Random Forest
- **Deep Learning Algorithms:** Artificial Neural Network, Convolutional Neural Network (CNN), Long Short-Term Memory (LSTM)
- **Data Handling & Analysis:** Data wrangling, Data cleaning, EDA (Exploratory Data Analysis), Data visualization, Feature engineering

## EDUCATION

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**University College of Engineering - Thodupuzha, Idukki, Kerala** [2021-2025]

Bachelor of Technology - Computer Science and Engineering  
Pursuing (APJ Abdul Kalam Technological University)

**St. Thomas Higher Secondary School - Erattayar, Idukki, Kerala** [2019-2021]

Higher Secondary  
92% (Directorate of Higher Secondary Education)

**Marian Public School - Marygiri, Idukki, Kerala** [2018-2019]

High School  
81.4% (Central Board of Secondary Education)

## PROJECT WORK

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### Stock Prediction and News Reading Platform

- Built an LSTM-based stock price prediction model integrating sentiment analysis of financial news, historical stock data, and technical indicators.
- Enhanced model performance by incorporating technical indicators (RSI, moving averages, etc.) alongside market news.
- Achieved above 90% predictive accuracy in forecasting next-day stock price trends.
- Tools & Technologies: Python, Scikit-learn, TensorFlow, Keras, Pandas, NumPy, Matplotlib.

## **Neorvex - Product Recommendation System**

- Developed a recommendation engine for Flipkart products using web scraping (Scrapy, BeautifulSoup) and sentiment analysis (TextBlob).
- Collected and processed thousands of product reviews, extracting features and sentiment scores to rank products.
- Suggested top-rated products with improved reliability through NLP-driven sentiment classification.
- Tools & Technologies: Python, Scrapy, BeautifulSoup, TextBlob, Pandas, NumPy.

## **SEMINAR**

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### **Automated Neural Network Design via Genetic Algorithms**

We explored automating CNN design for MNIST image classification using a genetic algorithm (GA), which optimizes hyperparameters like CNN depth, padding, pooling type, batch normalization, activation function, learning rate, epochs, and parameter count.