

# VIVEK CHATHAYIL

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## PROFESSIONAL SUMMARY

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Computer Science graduate with hands-on experience in AI/ML applications, web development, and data engineering. Proficient in Python, Django, and machine learning frameworks with demonstrated ability to build end-to-end ML pipelines and web applications. Currently researching AI-based banking applications at Speridian Technologies.

## WORK EXPERIENCE

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### Intern | Speridian Technologies, Calicut, India

June 2025 – Nov 2025

- Research and develop AI-based applications for banking customer feedback and debt recovery systems
- Build Django-based web applications to validate research findings and demonstrate proof-of-concepts
- Enhance full-stack development skills through guided mentorship and hands-on project implementation

## EDUCATION

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### Bachelor of Technology in Computer Science Engineering

June 2021 – May 2025

Royal College of Engineering & Technology, Thrissur, India | CGPA: 6.57

APJ Abdul Kalam Technological University

Relevant Coursework: Deep Learning, Artificial Intelligence/Machine Learning, Cloud Computing, Data Structures & Algorithms

## PROJECTS

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### ExpenseWell - Expense Tracker | Sept 2025 – Present

- Developed ML-powered expense tracking application with NLP categorization and time-series forecasting
- Implemented real-time ML pipeline architecture: data ingestion → inference → visualization
- Built comprehensive Django web application with budget insights and predictive analytics.

### AI-Driven Sentiment Analyzer Web App | July 2025 – Aug 2025

- Created scalable sentiment analysis platform using Django and transformer-based models (ROBERTa)
- Enabled bulk data processing with CSV/Excel upload functionality and downloadable analytical reports
- Deployed NLP pipeline for large-scale text sentiment classification with statistical visualizations.

## Automatic English Grammar Error Correction | July 2024 – March 2025

- Developed hybrid grammar correction system achieving 92% accuracy, outperforming rule-based systems by 18%
- Integrated regex patterns, LanguageTool API, and BART transformer model for comprehensive error detection
- Built real-time GUI with text and voice input capabilities for seamless user experience.

## TECHNICAL SKILLS

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| • Programming Languages: Python, SQL, Java, C/C++, JavaScript, HTML/CSS                              | • Data & Cloud: MySQL, PostgreSQL, Oracle Cloud Infrastructure, Power BI                                  |
| • Machine Learning: TensorFlow, PyTorch, Scikit-learn, Hugging Face Transformers, NLP, Deep Learning | • Tools & Frameworks: Git, ROBERTa, BART, Transformer Models  |
| • Web Development: Django, Django REST Framework, RESTful APIs                                       | • Specializations: Supervised/Unsupervised Learning, Natural Language Processing, Time-series Forecasting |

## CERTIFICATIONS

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| • Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate - Oracle (Sept 2025) | • Django 4 and Python Full-Stack Developer Masterclass - Udemy (May 2025) | • The Joy of Computing using Python - NPTEL, IIT Madras (2022) |
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## LANGUAGES

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- English: Full Professional Proficiency
- Hindi: Professional Working Proficiency
- Malayalam: Native/Bilingual Proficiency