

# VIVEK CHATHAYIL

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## **PROFESSIONAL SUMMARY**

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**

### **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**

### **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**

### **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
- Machine Learning: TensorFlow, PyTorch, Scikit-learn, Hugging Face Transformers, NLP, Deep Learning
- Web Development: Django, Django REST Framework, RESTful APIs
- Data & Cloud: MySQL, PostgreSQL, Oracle Cloud Infrastructure, Power BI
- Tools & Frameworks: Git, ROBERTa, BART, Transformer Models
- 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)

## LANGUAGES

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