

# DEVIKA PILLAI

## AI Engineer

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### EDUCATION

<b>Rochester Institute of Technology</b> <i>Master of Science in Data Science</i> <ul style="list-style-type: none"><li>CGPA: 3.78</li><li>Relevant Coursework: Non-relational &amp; relational Database Management, Statistics, Foundation of Data Science &amp; Analytics, Software Construction</li></ul>	<b>12/2024</b> <i>Rochester, NY</i>
<b>NMIMS Mukesh Patel School of Technology Management and Engineering</b> <i>Bachelor of Technology in Electronics and Telecommunications Engineering</i> <ul style="list-style-type: none"><li>CGPA: 3.60</li><li>Relevant Coursework: Machine Learning, Deep Learning, Database Management Systems, Mathematics</li></ul>	<b>07/2022</b> <i>Mumbai, India</i>

### SKILLS

**Languages:** Python, SQL, R, Java, C, XML, HTML, CSS  
**Softwares:** VS Code, Jupyter, MySQL, Oracle, Apache Airflow, Apache Kafka, Tableau, Microsoft Office, MS Excel, Azure, Flask  
**Technical:** ETL Pipelining, Neo4j, MongoDB, Tensorflow, Pandas, GitHub, Junit, Keras, PyTorch, FastAPI

### WORK EXPERIENCE

<b>Sainterview</b> <i>AI Innovation Intern</i> <ul style="list-style-type: none"><li>Optimized AI models through hyperparameter tuning and NLP algorithms for better question generation and analysis.</li><li>Preprocessed datasets to ensure high-quality model inputs aligned with business needs and recruitment scenarios.</li><li>Developed custom performance metrics to evaluate AI-generated outputs, driving continuous model improvements and platform efficiency.</li><li>Researched new AI methodologies to propose innovative solutions for future product development and feature enhancements.</li></ul>	<b>10/2024 – Present</b> <i>Rochester, USA</i>
<b>Rochester Institute of Technology</b> <i>Graduate Grader – Part Time</i> <ul style="list-style-type: none"><li>Evaluated academic coursework for the statistics department, ensuring accurate calculations and methodology adherence.</li><li>Clarified statistical concepts like hypothesis testing and ANOVA using real world scenarios and providing feedback and resources for projects.</li><li>Communicated complex statistical ideas using visual aids and conducted review sessions before exams to reinforce learning and boost confidence.</li></ul>	<b>01/2024 – 05/ 2024</b> <i>Rochester, USA</i>
<b>iAssist Innovation Labs</b> <i>Project Intern</i> <ul style="list-style-type: none"><li>Employed Python libraries for OCR to efficiently extract critical data from datasets.</li><li>Streamlined data processing by converting complex hospital datasets from PDFs to Excel sheets.</li><li>Led efforts to clean and refine datasets, improving precision and reliability for two of India’s leading insurance companies and one prominent hospital.</li><li>Diagnosed OCR system bugs and implemented solutions that increased performance and detection accuracy from approximately 70% to 82%.</li></ul>	<b>05/2021 – 06/2021</b> <i>Bangalore, India</i>

### PROJECTS

<b>Unmasked – An in-depth analysis of deepfake detection models   Python</b> <ul style="list-style-type: none"><li>Re-implemented a state-of-the-art deepfake detection model, using a dataset of 41 million facial sequences and 800 videos.</li><li>Verified model accuracy on the FaceForensics++ dataset and tested on the WildDeepFake dataset to highlight existing detection gaps.</li><li>Achieved an AUC of 97% on FaceForensics++ and 77% AUC on WildDeepFake.</li></ul>	<b>Present</b>
<b>End-to-end Chatbot for Eatery Management   Python, SQL</b> <ul style="list-style-type: none"><li>Developed AI-driven chatbot to enhance customer interaction for an eatery, enabling users to easily browse the menu and place orders.</li><li>Created a comprehensive MySQL database to manage menu items, track orders, and monitor order status in real time.</li><li>Engineered the backend using PyCharm and FastAPI, integrating the database with the chatbot to facilitate seamless order processing and tracking.</li></ul>	<b>08/2024</b>
<b>Phishing Website Detection   Python, Flask</b> <ul style="list-style-type: none"><li>Developed a phishing detection model using best performing algorithm after comparing 5 deep learning algorithms.</li><li>Implemented the model on a custom dataset and created a web interface using Flask.</li><li>Secured 90.4% accuracy, 0.8714 precision and 0.9056 F1 score following deadline-driven project management practices.</li></ul>	<b>03/2022</b>

### CERTIFICATIONS

- Microsoft Certified AI Engineer (Present)
- Introduction to Generative AI by Google Cloud (04/2024)
- Cloud computing badges by Microsoft (04/2024)