

DEVIKA PILLAI

AI Engineer

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EDUCATION

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

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

Rochester Institute of Technology <i>Graduate Grader – Part Time</i> <ul style="list-style-type: none">Evaluated academic coursework for the statistics department, ensuring accurate calculations and methodology adherence.Clarified statistical concepts like hypothesis testing and ANOVA using real world scenarios and providing feedback and resources for projects.Communicated complex statistical ideas using visual aids and conducted review sessions before exams to reinforce learning and boost confidence.	01/2024 – 05/ 2024 Rochester, USA
iAssist Innovation Labs <i>Project Intern</i> <ul style="list-style-type: none">Employed Python libraries for OCR to efficiently extract critical data from datasets.Streamlined data processing by converting complex hospital datasets from PDFs to Excel sheets.Led efforts to clean and refine datasets, improving precision and reliability for two of India’s leading insurance companies and one prominent hospital.Diagnosed OCR system bugs and implemented solutions that increased performance and detection accuracy from approximately 70% to 82%.	05/2021 – 06/2021 Bangalore, India

PROJECTS

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

CERTIFICATIONS

- Microsoft Certified AI Engineer (Present)
- Introduction to Generative AI by Google Cloud (04/2024)
- Cloud computing badges by Microsoft (04/2024)
- Generative AI Fundamentals by Databricks (03/2024)
- Google Data Analytics Professional Certificate (12/2023)