

Swathi Konduru

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EDUCATION

West Chester University of Pennsylvania , West Chester

Jan 2022- May 2023

M.S in Computer Science

GPA: 3.8

Relevant coursework: Data Structures, Analysis of Algorithms, Database Management, Data Visualization, Artificial Intelligence, Data Analytics, Discrete Mathematics, Principles of Programming Languages, Advanced Seminar, Programming in C & Java.

Pennsylvania State University , Harrisburg

Aug 2021 - Dec 2021

Artificial Intelligence Course

GPA: 3.4

Presidency University , Bangalore, India

Aug 2017 - May 2021

Bachelors in Computer Science

GPA: 3.4

SKILLS

Functional : Git

Technical : Python , SQL, Machine Learning, pandas, NumPy, Scikit-Learn, TensorFlow, Docker, Keras, MySQL, PostgreSQL, C

Data Visualization : Matplotlib, Seaborn, Plotly

Web Development : Bootstrap5, HTML, CSS, Django, JavaScript, Flask

PROFESSIONAL EXPERIENCE

Data Inception LLC - Chesterfield, Missouri

Aug (2023) - present

Trainee Full Stack Developer

- Developed responsive restaurant websites using HTML, CSS, Bootstrap, JS, and integrated multiple technologies for cohesive web applications.
- Implemented robust backend solutions with the Django framework and Docker for efficient deployment.
- Collaborated on full-stack projects, conducted research, and supported day-to-day operations to foster effective teamwork.

The West Chester University of Pennsylvania - West Chester, Pennsylvania

Aug(2022)- May(2023)

Research Assistant

- Assisted professor in developing applications that schedule tasks in an optimal way to obtain optimized energy consumption.
- Optimizing energy consumption using Power Management techniques such as Dynamic Voltage Scaling (DVS) and Dynamic power Management (DPM) in battery operated Real-Time systems.
- Defining a suitable Scheduling algorithm (Least Slack Time) that works well with DVS, DPM and the integration of both. Conducted three case studies to analyze and compare the performance of the algorithms.

Information Services & Technology Help Desk - West Chester, Pennsylvania

June 2022 - August 2022

Intern

- Provided level one and two support by promptly addressing technical issues, utilizing diagnostic techniques and effective communication skills to troubleshoot and resolve user problems remotely, ultimately improving user satisfaction and enhancing overall IT service delivery while minimizing downtime by 40%.
- Diagnosed and resolved configuration issues remotely, providing step-by-step guidance for 500 -1000 students to set up and optimize their entertainment devices, ensuring a seamless on-campus living experience with TVs, gaming systems, and streaming devices.
- Resolved 15-20 daily incidents involving software and hardware issues for both students and employees.

PROJECTS

Plant Disease Detection using Deep Learning

Aug '22 - Oct '22

- Conducted extensive research and analysis to identify the most suitable Convolutional Neural Network architectures for the proposed work.
- Utilized Convolution Neural Network architectures, including AlexNet, ResNet50, InceptionV3, and DenseNet, to detect and classify plant diseases across 25 different classes.
- Modified an existing dataset and created a new dataset by applying offline augmentation techniques. Evaluated the models in terms of accuracy, precision, F1-score.
- Compared the performance of the mentioned models on the augmented dataset, with AlexNet achieving 97% accuracy.

Playstore Apps Data Analysis

June '23

- Explored real-world databases by analyzing them using SQL, extracting insights, and retrieving valuable information.
- Preprocessed and cleaned the dataset using pandas, a powerful Python library, and validated its quality and accuracy visually using Excel.
- Created two separate data tables in the database, one for apps and another for reviews, each containing approximately 40,000 rows. Utilized SQL queries with concepts like aggregation, grouping, and ordering to extract meaningful insights from the dataset.

Video Summarization using Machine Learning

Feb '23 - May '23

- Generated video summaries by employing supervised and unsupervised learning techniques.
- Utilized K-means clustering for unsupervised learning to partition the data into clusters based on the similarity of data points and employed a Convolutional Neural Network-based Long Short-Term Memory model for supervised learning.
- Achieved a significantly higher Jaccard similarity score of 35% for the unsupervised model, compared to 22% for the supervised model, which measured the overlap between the generated summary and the user data.

ACHIEVEMENTS

- Graduate Dean's Scholarship for Global Diversity & Academic Achievement. Issued by West Chester University of Pennsylvania (Jan 2022).
- Publication: https://www.researchgate.net/publication/355107525_AgriDoc_Classification_and_Prediction_of_plant_leaf_diseases