

Shivangi Kakkar

+1 5202861188 | Tucson, AZ | shivangi.kakkar@outlook.com
shivangikakkar.com | linkedin.com/in/shivangikakkar15/ | github.com/ShivangiKakkar

EDUCATION

State University of New York at New Paltz <i>Master of Science in Computer Science, Academic Excellence Awardee, Grade: 4.0/4.0</i>	New York, USA Jan. 2021 – Dec. 2022
Mody University of Science and Technology <i>Bachelor of Technology in Computer Science and Engineering</i>	Rajasthan, India Aug. 2014 – May 2018

TECHNICAL SKILLS

Languages: Python, Java, SQL, Swift, JavaScript, Shell Scripting
Frameworks: Django, Flask, Pandas, Tensorflow, PyTorch, Node.js
Tools and Technologies: Docker, Kubernetes, CircleCI, Jenkins, Xcode, Kafka, AWS
Certifications: Azure Fundamentals, Certified Palantir Foundry Application Developer, Google Data Analytics Specialization, Meta iOS Developer Professional Certification (ongoing)

EXPERIENCE

Data Engineer <i>Reflection Group, LLC</i> <ul style="list-style-type: none">Led the core data engineering efforts for multiple technical consulting projectsWorked directly with client data stores to create ETL pipelines that powered downstream analytics	Jan. 2024 – June 2024 <i>Remote</i>
Data Analyst <i>Reflection Group, LLC</i> <ul style="list-style-type: none">Managing Analysis and rationalization of Master Data to create a data lake for the upcoming ERP implementationWorking with Advanced Visualization tools like Tableau and Plotly to create dashboards and visualizations for key stakeholders	Feb. 2023 – Dec 2023 <i>Columbus, OH</i>
Graduate Teaching Assistant <i>State University of New York at New Paltz</i> <ul style="list-style-type: none">Mentored 200+ students, facilitated laboratory activities, and graded exams/assignments for courses such as CS I, CS III (Advanced Data Structures in Java), Database Management, and Introduction to UI/UX	Aug. 2021 – Dec. 2022 <i>New Paltz, NY</i>
Full Stack Development Intern <i>MoodConnect</i> <ul style="list-style-type: none">Created APIs to facilitate data exchange between the front-end, the relay service, and the core ML modelDesigned process flows for ALM via Bitbucket and Jenkins, implemented quality gates via integration and regression tests	Jul. 2022 – Sep. 2022 <i>Remote</i>
Software Developer <i>Modern Secular Public School</i> <ul style="list-style-type: none">Designed and coded the School website from scratch using React, Node.js and implemented CI/CD pipelines to host on AWS EC2, RDS, ECRCreated an LMS WebApp for Teachers and Students, implemented integration with third-party payment and fees management platforms which served 2k+ students	Apr. 2019 – Nov. 2020 <i>Punjab, India</i>
Privacy and Security Engineering Intern <i>Mozilla</i> <ul style="list-style-type: none">Triaged issues, deployed bug fixes, and implemented new features for Firefox Containers Add-Ons impacting 435k daily active users and over 1.8MM total usersCoded the visual user interface of the Firefox Facebook Container add-on and developed a Web Extension API for blocking Facebook sub-resources in Javascript	Dec. 2018 – Mar. 2019 <i>Remote</i>

PROJECTS

Modeling Climate Change using Big Data and Machine Learning

- Established an end-to-end data collection pipeline to gather 8.6M unique data points across 321 cities going back 250+ years
- Built the entire data preprocessing stage using MapReduce via the mrjob library in Python 3.7
- Trained a Multi Class Naive Bayes Classifier and achieved an out-of-sample Weighted F1 score of 0.67

ML based Sudoku Solver | *Python, numpy, OpenCV, Tensorflow*

- Built the core solver using DFS and backtracking to maximize performance to more than 1M puzzles in 5ms each
- Utilized the OpenCV Framework for Adaptive Thresholding, Warping, and Canny Edge Detection in the OCR pipeline
- Trained a 6-layer Tensorflow Model on MNIST Digit data and achieved 99.59 percent accuracy

EXTRA CURRICULAR RESPONSIBILITIES

President | *International Students' Union, SUNY New Paltz*

- Led a diverse team of international student representatives, orchestrating cross-cultural events and initiatives that enhanced the campus experience for over 500 students.
- Managed a budget of 10,000 USD, effectively allocating resources to support student activities, and ensured compliance with university policies.

Captain | *Womens' Tennis Team, Mody University*

- Led the womens' team across various national collegiate athletic meets
- Won 2 Gold, 2 Silver, 1 Bronze in Womens' Singles across multiple competitions