SOHAM CHINCHALKAR

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EDUCATION

Arizona State University **Aug 2024 - May 2026**
Master's, Information Systems *GPA: 4.22*
- Coursework: Advanced Data Analytics, Deep Learning, statistics, Adv. DBMS, Data in the Cloud, Computer vision, NLP

Savitribai Phule Pune University **Aug 2020 - Jun 2024**
Bachelor's, Computer Engineering *GPA: 3.9*
- Coursework: Data Structures and Algorithms, OOP, Networks, AI, Machine Learning, Data Science

SKILLS

- **Programming Languages:** Python, Java
- **Data Analysis Tools:** Tableau, Power BI, Excel/Numbers/Sheets, statistics, outlook, advanced excel, Looker, Kafka, Spark
- **Libraries/Frameworks:** NumPy, Pandas, Keras, TensorFlow, Flask, PyTorch, Ansible
- **Data Visualization:** matplotlib, seaborn, D3.js
- **Databases:** MySQL, MongoDB, NoSQL, PL/SQL, Hive
- **Cloud Platform:** Microsoft Azure, AWS s3
- **Web Technology:** HTML/CSS, JavaScript
- **Interpersonal Skills:** Leadership, Projects management, Problem-solving, Teamwork, Communication skills

PROFESSIONAL EXPERIENCE

Arizona State University **Aug 2024 - Present**
Teaching Assistant *Tempe, AZ, USA*
- Administered learning to 200+ students and professionals by running sessions on fundamental skills in SQL, Tableau, and ML Algorithms to facilitate the practical application of these tools.
- Collaborated with professors to design quizzes, graded assignments, and maintain organized student records for efficient course administration.

Virtual Galaxy Infotech Pvt. Ltd. **Feb 2023 - May 2023**
Oracle Developer Intern *Nagpur, MH, India*
- Developed and optimized SQL queries to efficiently extract data, resulting in a 30% reduction in report generation time
- Assisted in resolving database transaction errors under senior administration
- Strengthened cross-functional collaboration and teamwork with engineers and analysts.

RESEARCH PUBLICATIONS AND PROJECTS

Real-Time Temperature Visualization and Simulation - *Link to project* **Nov 2024 – Jan 2025**
Tempe, AZ, USA
- Built a real-time weather simulation web-based app that visualizes temperature data with interactive graphs and animations. Users can view live weather changes based on current temperature.
- Integrated the weather API to fetch live temperature data and used D3.js, JavaScript and GitHub Pages to make this responsive web-based app update in real time for an interactive dynamic user experience.

An Innovative Keylogger Detection System Using Machine Learning Algorithms and Dendritic Cell Algorithm **Jun 2023 – Feb 2024**
Pune, MH, India
- The hybrid keylogger detection system was developed by integrating the Dendritic Cell Algorithm with machine learning models, such as SVM and Naive Bayes, to enhance system security and improve the accuracy of detection.
- Implemented the solution using Python and libraries such as NumPy, Pandas, and Scikit-learn, achieving a 99.8% accuracy rate in detecting keyloggers.
- IPR: Patent – Keylogger Detection System, Application Number: 202421040728 (Filed: 25 May, 2024)
- *Link to project*

A Fraud Detection System in Financial Networks Using AntiBenford Subgraphs and ML Algorithms **Oct 2023 – Jan 2024**
Pune, MH, India
- Built a financial fraud detection system with Python, integrating graph mining techniques based on Benford's Law with unsupervised machine learning algorithm that reached 94.83% accuracy in anomaly detection.
- Utilized NumPy, Pandas, and Scikit-learn for data manipulation and machine learning; and applied parallelism with CUDA to efficiently manage large datasets which increased performance while creating inferences.
- IPR: Architecture Copyright – Fraud Detection System, Registration Number: L-138365/2023 (Filed: 14 Dec, 2023)
- *Link to project*

AWARDS

Engineering Graduate Fellowship from Fulton Schools of Engineering **Aug 2024**
2 Merit based scholarships from Arizona State University **Aug 2024**