

Nikhil Vijay Yadav

Tempe, AZ | (623) 261-8279 | nyadav30@asu.edu | [Portfolio](#) | [Github](#) | [LinkedIn](#)

EDUCATION

Arizona State University

Master of Science in Computer Science;

Courses: Data Mining, Machine Learning, Data Visualization, Knowledge Representation and Reasoning

Tempe, AZ

Jan 2024 - Dec 2025

Savitribai Phule Pune University

Bachelor of Computer Engineering; CGPA: 9.27/10.0 (top 1%, Class of 2020)

Courses: OOP, Web development, Database Management System, Artificial Intelligence, Data Structures & Algorithms

Pune, India

August 2016 - May 2020

WORK EXPERIENCE

Barclays

Software Development Engineer

Pune, India

May 2022 - Dec 2023

- Spearheaded the design of the OpenAPI Specification and played a pivotal role in both engineering and developing over 10 REST APIs, significantly enhancing their integration across a variety of platforms and channels.
- Contributed significantly to the development of React-based user interface components, used by internal teams and in online retail banking applications, leading to a **50%** enhancement in system response time.
- Executed a multithreading approach in processing customer address data, enhancing efficiency in systems like bank accounts and credit cards, leading to a **70%** reduction in response times and **80%** less manual synchronization effort.
- Engaged closely with stakeholders to effectively prioritize requirements, ensuring alignment with organizational goals. Utilized project management tools like Jira to streamline this process.

Tata Consultancy Services

Software Development Engineer

Pune, India

Sep 2020 - May 2022

- Led the migration of over 100+ legacy SQR Scripts to Python for Westpac, a leading Australian Bank, significantly boosting system performance. This effort resulted in a **60%** reduction in batch job execution times through the efficient generation of PDF, CSV, Text, and XML Reports.
- Enhanced and adapted existing shell scripts on a Linux (RHEL) platform to align with new Python scripts, elevating the efficiency and reliability of the Margin Lending Report Generation Application.
- Designed and implemented a Tableau dashboard to visually analyze and interpret idle times among colleagues, serving as a strategic internal tool for the delivery team's operational enhancement.

Cradiant IT Services Pvt. Ltd

Software Development Engineer Intern

Pune, India

Jan 2020 - June 2020

- Engineered Java API endpoints with the Spring Boot framework and spearheaded collaboration with cross-functional teams to refine and enhance them, resulting in a **60%** improvement in the portal's overall efficiency.
- Debugged and meticulously tested API functionality through Karate Testing, effectively identifying and resolving critical issues, thereby slashing potential setbacks by **50%**.

PROJECTS

Twitter Sentiment Analysis Using Supervised Machine Learning.

Aug 2019 - May 2020

- Applied advanced Natural Language Processing techniques innovatively to find out the Sentiment of Tweets achieving a remarkable **90%** accuracy rate.
- Developed GUI in Python Tkinter to accept the topic of interest and to view the sentiment of Tweets in a Graphical Representation.

College Accounting Management System.

Jan 2019 - May 2019

- Designed and implemented a Java-based standalone application for student facilities management, Integrated with an Oracle database and featuring diverse student account types based on majors.
- Optimized code and streamlined JDBC calls, resulting in a **20%** reduction in system response time, while also strengthening security measures and overall operational efficiency.

SKILLS

Languages : Python, JavaScript(ES5/ES6), TypeScript, C, C++, HTML, CSS, JSON, XML, MATLAB, Shell Scripting.

Technologies and Frameworks : Java Spring Boot, REST APIs, React, GraphQL, OpenShift, Junit, Mockito, Karate Testing, Machine Learning, pandas, Data Science, SonarQube.

Tools : Microsoft PowerPoint, Microsoft Excel, Microsoft Word, AppDynamics, Tableau, Power BI, Google Colab, JIRA, Confluence, SharePoint, Google Colab, Google Docs, Kibana, Jupyter Notebook.

Database : MySQL, PostgreSQL, NoSQL, Sybase, Oracle.

Version Control : Git & GitHub, BitBucket, SourceTree.

Skills : Agile, Scrum, Web Development, Unit testing, Test Coverage, Scalable Multithreaded Architecture, Micro-services, CI/CD, IT troubleshooting, ServiceNow.

Soft Skills : Communication (verbal and written), Leadership, Collaboration, Mentorship.

ACHIEVEMENTS & ACTIVITIES

- Recognized by the Head of Engineering at Barclays in the Account and Customer Servicing Team for delivering high-quality results and executing Phase 1 of the NorthStar Change of Address Project with excellence.
- Awarded TCS Applause and On the Spot Award for rapid learning and timely, high-quality delivery. Recognized for leadership in the Nexus SQR to Python Migration Project.
- Published a technical paper on [Twitter Sentiment Analysis using Machine Learning for Product Evaluation](#) in IEEE at the 5th International Conference on Inventive Computation Technologies (ICICT).
- Achieved the Academic Excellence Award for securing the top position with an SGPA of 9.8/10 and additionally recognized as the university rank-holder during the academic year 2016-2017.