Shreyansh Kabra

Los Angeles, CA · +1-(213)284-5169 · kabras@usc.edu · LinkedIn · Github · Portfolio

Education

Master of Science, Computer Science **Jan 2025-Dec 2026 (Expected)**
University of Southern California, Los Angeles, California
Relevant Coursework: Data Structures and Algorithms, Web Technologies, Machine Learning for Data Science, Applied Natural Language Processing, Database Systems

Bachelor of Technology, Computer Science And Engineering **Aug 2018-May 2022**
JECRC University, Jaipur, Rajasthan
Relevant Coursework: Object Oriented Programming with C++, Software Engineering, Data Structures and Algorithms, Database Management Systems, Python Programming, Software Project Management, Artificial Intelligence, Big Data Analytics, Data Mining and Warehousing, Machine Learning

Technical Skills

Languages: Python, JavaScript, C++, SQL, HTML, CSS
Frameworks & Libraries: Django, Pandas, NumPy, Asyncio, Node.js, React.js, Tensorflow, Keras
Tools & Platforms: Google Cloud Platform, Git, ServiceNow, Postman, AndroidStudio
Databases: MongoDB, PostgreSQL
Concepts: Machine Learning, Natural Language Processing

Professional Experience

Cloud Developer 1, Hewlett Packard Enterprise, Bangalore **Aug 2022-Dec 2024**

- Engineered and deployed 100+ RESTful APIs with Python, Django, and DRF for enterprise-scale platforms (GreenLake, Service Insights), improving cross-module performance by 30% and enabling reliable, scalable data synchronization between PostgreSQL and ServiceNow.
- Led end-to-end development of a web-based email notification system (API + UI), improving communication workflows and boosting throughput by 80%.
- Delivered REST APIs for HPE GreenLake and Service Insights Portal and engineered responsive React.js UIs, streamlining task management and enabling scalable cross-module integration with a 30% efficiency gain and 50% fewer submission errors.
- Mentored 3 junior developers and partnered with 10+ international cross-functional teams, accelerating API delivery and enhancing inter-module performance by 30%.

R&D Intern, NaaS Team, Hewlett Packard Enterprise, Bangalore **Jan 2022-Aug 2022**

- Developed an asynchronous Python package to automate network device setup and calibration, eliminating 90%+ manual work and accelerating task completion by 50%, improving system reliability at scale.
- Streamlined troubleshooting report generation and optimized execution workflows, reducing task completion time by 50% and overall manual effort by 70%.
- Built REST APIs to integrate ServiceNow with other applications, enabling secure, scalable cross-platform communication and boosting operational efficiency by 50%.

Academic Projects

Transfer Learning for Image Classification (Keras, Tensorflow) **Jun 2025-Jul 2025**

- Developed a waste image classification system using transfer learning with pre-trained CNNs (EfficientNetB0, ResNet50/101, VGG16) across 9 categories, achieving 83% validation accuracy and 97.66% AUC with EfficientNetB0.
- Enhanced model performance by applying data augmentation, early stopping, learning rate scheduling, and class weight balancing; leveraged TensorFlow/Keras, OpenCV, and scikit-learn for training and evaluation.

Artist Search Platform (React.js, Node.js, Kotlin, MongoDB) **Mar 2025-May 2025**

- Crafted a full-stack platform including a React.js web app and native Android app (Kotlin, Android SDK), powered by a Node.js + Express backend, integrating the Artsy API to deliver data on 100,000+ artists and artworks.
- Designed secure, scalable data management using structured MongoDB collections and JWT-based authentication, ensuring reliable access control and session security.
- Optimized frontend performance and accessibility, achieving 100% Lighthouse scores for both mobile and desktop.