

RAHIL PARIKH

AI Developer at EvolveNXT | 213-827-4888 | rahilpar@usc.edu

EDUCATION

- University of Southern California** Aug 2024 – May 2026
- Master of Science in Computer Science (Artificial Intelligence). GPA: 3.80/4
- K. J. Somaiya College of Engineering** Jul 2020 – Jun 2024
- Bachelor of Technology in Computer Engineering. CGPA: 9.52/10
 - Honors in Data Science and Analytics. CGPA: 9.70/10

WORK EXPERIENCE

- AI Developer, EvolveNXT** Jun 2026 – Present
- Designed a RAG-powered chatbot that answered 100+ questions regarding commissions for health insurance brokers.
 - Developed an AI system to audit 200+ health insurance sales calls for CMS compliance and reporting requirements.
 - Streamlined web enrollment workflows for 500+ brokers and major insurance companies using AI-based automation.
- AI Engineering Intern, EvolveNXT** Mar 2026 – May 2026
- Implemented AI automation tools and REST APIs to document over 2k lines of code within enterprise systems.
 - Automated information extraction from over 1k errors and omissions documents using OCR and LLMs.
 - Built a Text-2-SQL agent for natural language analytics over enterprise databases, reducing ticket generation by 10%.
- Computer Vision Research Assistant, University of Southern California (USC)** Sep 2024 – Jan 2026
- Segmented and extracted 5 vital clinical glaucoma biomarkers using U-Net, achieving an accuracy of 99.758%.
 - Initiated the development of a scalable biomarker extraction pipeline containing over 15 features to identify glaucoma.
 - Trained a multimodal model leveraging ViTs and CNNs for glaucoma classification with an accuracy of 91.383%.
- Machine Learning Intern, TourScout** Jun 2025 – Jul 2025
- Led a team of 2 to develop a RAG-based LLM chatbot capable of answering questions related to concert venues.
 - Created an AI assistant to plan tours and generate performance insights, driving a 40% increase in artist engagement.
 - Deployed an E2E chatbot system with Cloudflare and AWS Lambda, capable of handling 10k+ monthly queries.
- Machine Learning & Cybersecurity Intern, DeepCytes Cyber Labs** Jan 2024 – Jun 2024
- Led a team of 7 to build an application powered by LLMs to answer questions related to the IPC (Indian Penal Code).
 - Prototyped red team tools to identify security vulnerabilities and improve threat detection efficiency by 30%.
 - Directed a team of 10 in detecting fake images and videos leveraging CNN and LSTM models.
- AI Software Engineer (Part-Time), Cognition** Apr 2024 – May 2024
- Calibrated LLM outputs through tailored instruction fine-tuning on 5 different software engineering tasks.
 - Instructed Devin in applying 3 VQA models for image-based QA tasks and development of Streamlit applications.
 - Engineered an LLM based system to convert 250+ JavaScript web scrapers to Python based scrapers.

PROJECTS AND OPEN-SOURCE WORK

- Open-Source Contributor, scikit-learn**
- Created **50+ Pull Requests (PRs)** to scikit-learn to fix bugs, enhance specific functions, and update documentation.
 - Fixed 20+ unique issues and assisted in resolving 9 meta-issues related to ML.
- Music Recommendation System** | Python, TensorFlow, SQL, Gradio
- Built a hybrid system using collaborative filtering to personalize music recommendations across 100k+ songs.
 - Achieved a 92% genre prediction accuracy and an NDCG@10 score of 0.89 for top-k song recommendations.
- Gravitational Lensing** | Python, PyTorch, scikit-learn, timm, OpenCV, Streamlit
- Deployed a vision transformer with an ROC AUC score of 0.998 for binary substructure classification.
 - Optimized EfficientNetB4 for dark matter halo mass calculation and achieved an MSE of 2×10^{-4} .

SELECTED RESEARCH WORK

- [1] **R. Parikh**, V. Nguyen, and A. Penkova, "Multimodal Glaucoma Classification Using Segmentation Based Biomarker Extraction", Knowledge-Based Systems 2026.
- [2] U. Mody, P. Shete, **R. Parikh** and J. Rajani, "Generative AI Platform for Applying Artistic Styles to Images", ICCDS 2024. [Best Paper Award].
- [3] **R. Parikh**, S. More, N. Kadam, Y. Mehta, H. Panchal and H. Nimonkar, "A Transfer Learning Approach for Classification of Knee Osteoarthritis", ICEEICT 2023. [Best Paper Award].

SKILLS

- Languages and Databases: Python, Java, C, C++, Go, R, Scala, SQL, MySQL, PostgreSQL, MongoDB, Supabase
- Technologies: PyTorch, TensorFlow, Keras, JAX, transformers, scikit-learn, OpenCV, NumPy, Pandas, Matplotlib
- Web/App Technologies: HTML, CSS, JavaScript, TypeScript, React, Angular, Vue, Node, Express, Restful API
- Tools/Frameworks: Tableau, Power BI, Git, Github, CI/CD, Hadoop, Hive, GCP, Azure, AWS, Docker, Kubernetes