POOYA KHOSRAVI

% khosravipooya.com

in khosravipooya

RESEARCH PROJECTS

AI/ML to Improve Glaucoma Management python, pytorch

Jun 2020 - Present

Q UC San Diego Hamilton Glaucoma Center

- Developed supervised machine learning approach to use longitudinal OCT and OCT-Angiography (OCTA) measurements to predict visual field progression in glaucoma suspect and glaucoma patients.
- Developed deep learning models to predict the severity and pointwise patterns of glaucomatous visual field damage on 24-2 and 10-2 test strategies using optic nerve head and macular OCTA images.
- Characterized the spatial patterns of microvascular dropout in glaucoma using unsupervised artificial intelligence approaches.

AI/ML in Medicine

python, pytorch, tensorflow.js

🛗 Jun 2021 - Present

Q UC Irvine

 Worked on AI/ML projects in various medical specialties. For example, developed a deep learning model and website for distinguishing tympanic membrane pathologies based on otoscopic images.

PROFESSIONAL EXPERIENCES

Software Engineer

InfiniGlobe

Sep 2019 - Mar 2021

🛗 Jun 2017 - Apr 2019

♥ Newport Beach, CA

- Built machine learning services and pipelines for data ingestion and model training. Implemented deployment services for trained models to predict costs of legal matters and suggesting actionable recommendations.
- Built legal matter recommendation and analytic services by extracting key performance indicators (KPIs) to improve risk management of legal vendors.

Software Engineer Intern

Boeing

♥ El Segundo, CA

 Designed a system to create data validation SQL queries using configurable mappings with python to streamline data verification at different manufacturing stages of a satellite.

Student Researcher

UC Irvine Medical Center

Jun 2018 - Jun 2019

Orange, CA

 Worked on various clinical projects and took a lead in developing a crossplatform smartphone application to investigate the efficacy of combined cognitive behavioral therapy and sound therapy for tinnitus patients.

EDUCATION

University of California, Irvine School of Medicine

MD/PhD Candidate

Aug 2021 - Jun 2029

University of California, Irvine PhD in Computer Science

🗎 Sep 2022 - Jun 2026

University of California, Irvine

BS in Computer Science and BS in Biomedical Engineering

Sep 2017 − Jun 2020 GPA : 3.99

Irvine Valley College

May 2017 GPA: 4.0

TEACHING

Anatomy Tutor

2022 - 2024

 International Collegiate Programming Contest (ICPC) Coach 2018 - 2023

ACHIEVEMENTS

- The 2023 ICPC North America Championship Bronze Medal, Sixth place Team: UCI Map (Co-Coach)
 2023
- SIR MSC Biodesign & Innovation Competition Semi-finalist
 2022
- Ranked 99th worldwide, 7th in US for IEEEXtreme 13.0 2019

INVOLVEMENTS

 Associated Medical Student Government (AMSG) - Treasurer
2021 - 2024

SKILLS

Advanced:

Python Java C/C++ LATEX SQL

Intermediate:

JavaScript PHP Matlab C#

Familiar:

Unix/Linux Bash

Powershell