ABHINAV R. KOLLI

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EDUCATION

The University of Texas at Austin Bachelor of Science, Computer Science Honors   December 2025
                                      Bachelor of Business Administration, Canfield Business Honors   December 2025

- **Relevant Honors Coursework:** Data Structures, Discrete Math, Multivariable Calculus, Probability & Statistics
- **Organizations:** TX Convergent Forge Startups, UT Programming Contests, CSB Association, ECLAIR Smart Mirror Team

EXPERIENCE

Behaivior – *Pittsburgh, PA (Remote)*   August 2022 - Present
Machine Learning Engineer Intern - *Python, TensorFlow, Keras, Google Cloud, Firebase*
- Enhance XGBoost and CNN models in predicting opioid cravings using time-series data extracted from 650 patient wearables
- Employ feature engineering techniques (PCA, Autoencoding) to enhance opioid input data for machine learning models
- Deploy testing framework of XGBoost model into Google Cloud and store prediction results into Cloud Firestore

Kalvi Prep – *Atlanta, GA (Remote)*   May 2021 - August 2021
Software Engineering Intern & Instructor - *React Native, MongoDB, JavaScript, Java*
- Oversaw backend team and engineered website's database form and mobile app features using MongoDB and React Native
- Launched the backend with team, received 25K+ page visits, and accrued over 2.3K student interest forms
- Established institute's 32-week Java Computer Science Data Structures courses to 600+ registered students

University of Texas at Dallas AI Labs - *Richardson, TX*   June 2020 - July 2020
Machine Learning Research Intern – *Python, TensorFlow, Keras*
- Trained a dynamic ARIMA-LSTM neural network model using TensorFlow-Keras to accurately predict 71% of stock input data
- Constructed a DQN-reinforced learning agent called StockBot and led the experiments that simulated the bot's stock trading
- Co-authored and edited university research paper on model's forecasting performance and reinforcement simulation

initializeChange() E-Learning Non-Profit - *Frisco, TX*   Summer 2019 - Summer 2021
Co-Founder & Instructor – *MIT App Inventor, Swift, HTML, CSS, JavaScript*
- Coordinated 9 workshops, HackCOVID hackathon, and Techspire Accelerator program with the National Tech Administration
- Hosted over 240 hours of individualized mentoring to 150+ students on hackathon-related programming frameworks

PROJECTS

VlogMi: Convergent Forge Startups – *React Native, AWS, TypeScript*   September 2022 - Present
- Reconfigure local startup's vlog application to React Native from Android and iOS as software engineer in tech team
- Developed a monetization interface that enables content creators to track their daily users and income from videos

SENPI: Sentiment Analysis Audio Detection API - *Scikit-Learn, Python, Flask, React.JS*   August 2022
- Trained and documented sentiment analysis results of various binary classification models with an airline's reviews dataset
- Utilized Google Colab to preprocess, vectorize, and design a model pipeline to quickly experiment with each sklearn model
- Devised an audio-to-text recording React app for users to input text data into Flask and output model's sentiment prediction

Algorimage – *HTML, CSS, JavaScript, React.JS*   January 2022
- Developed interactive algorithm visualizer for users to experiment pathfinding, sorting, and searching algorithms

HONORS

- USA Computing Olympiad Gold Division   Spring 2020
- 1st Place HackSMU State Farm Sponsor Award   Spring 2020
- 2nd place EarthXHack State Farm and Oxy Sponsor Awards   Spring 2019

SKILLS/ADDITIONAL INFORMATION

Technology: Python, Java, AWS, GCP, TensorFlow, Keras, React.js, React Native, TypeScript, C++, SQL, MongoDB, HTML, CSS, JS
Certifications: AWS Solutions Architect (2022), Google Data Analytics (in progress)
Interests: Hiking at National Parks, NFL (Carolina Panthers), Videogame Design, Cooking