

Ishan Hitesh Malkan

LinkedIn: [linkedin.com/in/ishan-malkan-389674177](https://www.linkedin.com/in/ishan-malkan-389674177)

Email: ishanmalkan2@gmail.com

Phone: +1 408 334 1666

Education

Master of Science in Software Engineering (Specialization in Data Science)

San Jose State University, San Jose, California, USA (GPA: 3.9/4.0)

Aug 2021 - Present

Relevant Subjects: Machine Learning, Deep Learning, Data Mining, Artificial Intelligence Testing.

Bachelor of Technology in Information Technology

Nirma University, Ahmedabad, Gujarat, India

Jul 2016 - Jun 2020

Relevant Subjects: Data Structures, Algorithms, Database Management, Data Mining, Deep Learning, Linear Algebra, Probability, Statistics and Numerical Analysis

Skills

Concepts: Machine Learning (Regression, Logistic Regression, Decision Trees, Random Forests, Gradient Boosting, Clustering), Deep Learning (Artificial Neural Networks, Convolutional Neural Networks, RNNs), Natural Language Processing (NLP), Statistics, Probability, Linear Algebra, Algorithms, Data Structures, Database Management, Agile.

Tools and Languages: Python (Pandas, Numpy, Seaborn, Matplotlib, Scikit learn, TensorFlow, Keras), SQL, MySQL, Jenkins, Amazon Web Services (AWS) (ec2, s3, Redshift, Sagemaker), Google Cloud Platform (GCP) (Cloud Storage, Cloud SQL, BigQuery, Compute Engine, AutoML, Feature Store, DataStudio), Java, JavaScript, C, Jira, Git.

Experience

Graduate Teaching Assistant, San Jose State University, California, USA.

Jan 2022 – Present

- Teaching two subjects on Machine Learning, creating, and evaluating assignments and quizzes, giving practical demos in the classroom using python libraries and working on mathematics behind algorithms.

Data Scientist, Capital Float, Bengaluru, Karnataka, India

Jan 2020 - Jul 2021

- Designed and developed 2 classification predictive models namely “Income Estimation from Experian Bureau Data” and “Fraud model” after processing credit history and SMS data of users.
- Worked on statistical tests such as Chi squared, Weight of Evidence and data cleaning / processing tasks such as outlier analysis, missing value handling, binning as well as on text processing using Regex and NLP concepts.
- Performed data visualization and created live dash boards using AWS and GCP tools on datasets sometimes extending 10 TB data and presented insights to credit, risk, collections, and product teams for decision making.
- Executed deployment and live monitoring of predictive models and designed optimized techniques to reduce user wait time for score generation on the mobile application from 31 seconds to 4 seconds.
- Managed 2 projects of credit risk modeling and trained 3 interns on modeling techniques using Python and SQL.

Research Intern, Indian Space Research Organization (ISRO), Gujarat, India

May 2019 - Jul 2019

- Researched on techniques to parse L and S band SAR space satellite images using computer vision.
- Generated training dataset for the model using image segmentation and image registration techniques.
- Worked on OpenCV to perform image processing tasks to segment image into 15 types of crops.

Academic Projects:

Washington State home loan analysis and prediction:

Aug 2021 – Dec 2021

- Performed data cleaning, data augmentation, dimensionality reduction and data visualization and predictive modelling on Kaggle dataset containing information about home loans such as application details and outcomes.

Flower species classification

Aug 2021 – Dec 2021

- Designed and Developed Convolutional Neural Networks on Tensor Processing Units (TPUs) for faster matrix calculations and achieved an F1 score of 91% using transfer learning techniques to classify 104 types of flowers.

AI testing on Mathway application:

Aug 2021 – Dec 2021

- Performed black box, white box, and Artificial Intelligence testing on “Mathway” Mobile application using android studio and Java programming language.