

AI/ML Portfolio

Artificial Intelligence and data are real business requirements of the day. From startups to enterprises, the benefits of AI services and solutions are being leveraged by those that have implemented it. Surprisingly, there are many others who are yet to commence their AI journeys and we can help with that.

The below projects were either fully developed or assisted by our in-house team or through our extensive net of tested professionals. No project is too large, too small or too complicated.



AI for Business: 360° Solutions for a Smarter Future

Before you start developing an AI system for your business, it's important to understand its vast potential. The right AI platform and technology can help you:

- ✔ Protect data with advanced security and encryption.
- ✔ Automate data collection, classification, and visualization.
- ✔ Find data patterns and behaviors for better insights and decisions.
- ✔ Power data-driven strategic decision-making across all business areas.
- ✔ Improve productivity and performance by streamlining workflows & automating tasks.
- ✔ Drive data-backed sales and marketing campaigns that are more targeted and effective.
- ✔ Capture and analyze visuals to gain new insights into business operations & customer behavior
- ✔ Enhance customer experience with personalized recommendations, support, & problem-solving.



Technologies We Work With:



Neural Networks



TensorFlow



PyTorch



Hugging face transformers



MXNet



MLflow



Databricks



Apache Spark



Keras



OpenCV



TensorFlow Light



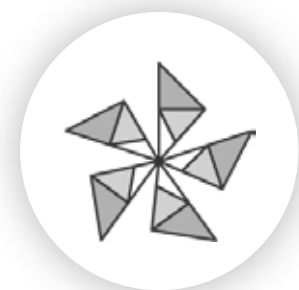
Rapid Miner



KNIME



TensorFlow Serving



ONNX Runtime



Pyspark



MLlib



NLTK



SpaCy



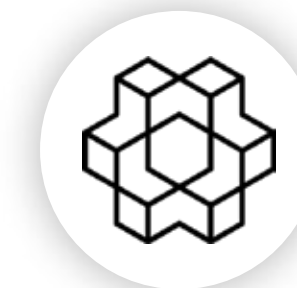
Catalyst



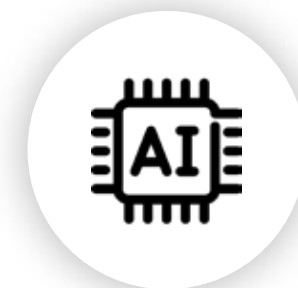
Microsoft Azure



Scikit-Learn



OpenAI Gym



Other AI tools

We also work with a variety of cloud-based AI services, such as [Google AI Platform](#), [Amazon Web Services AI Services](#), and [Microsoft Azure AI Services](#).

Below are some of the products/projects we can disclose. Few of these are in-progress due to the current vast interest in AI/ML projects

AI copywriting tool

A web application that uses natural language generation to create content for various online platforms. Users can input their topic, tone, style, and keywords, and our tool will generate a unique and relevant copy. Our tool also provides feedback and suggestions to improve the copy. Our tool uses GPT-3, a powerful natural language generation model, and Prompt Engineering, a technique to craft effective prompts for GPT-3.

Technologies:

ReactJS

Bootstrap

ANT Design

JQuery

Nginx

Mailtrap

Gatsby

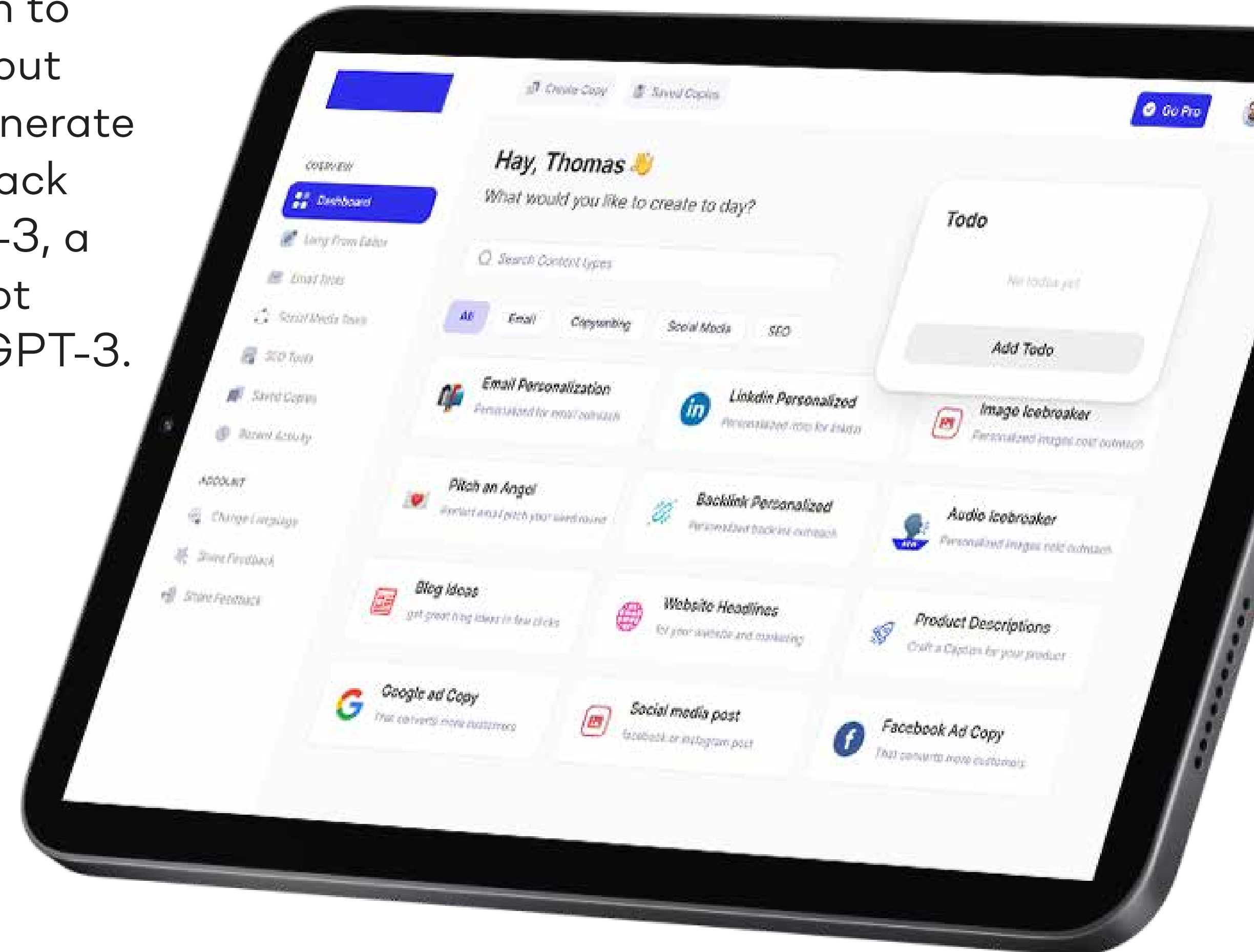
AWS Lambda

Prompt Engineering

Webpack

Stripe

AWS Auto Scaling Group



AI-Powered Auto Insurance Fraud Claim Detection System

We've created an AI model, utilizing logistic regression, specifically designed for auto insurance fraud claim detection. This model effectively identifies outliers in the data, helping to flag potential fraud claims while minimizing false positives. Upon claim submission, our AI instantly assesses and assigns a fraud score, alerting fraud analysts for further review. Trained on a diverse dataset, including road traffic accident claims and client documents, our AI enhances fraud detection, leading to reduced wrongful payouts and overall claims expenses. This innovation instills confidence in the insurance industry by significantly reducing fraud and cutting associated costs for clients.

Technologies:

Tensorflow

Python

Google Cloud Platform



AI-Driven Idea Extraction and Recommendation System

Created two AI systems: one for extracting and categorizing ideas from articles and books using natural language processing and another for identifying related ideas within each category. Our focus was on building a K-Nearest Neighbor (KNN) model for topic classification and extraction, supported by data clustering. This allowed our system to effectively categorize ideas and daily recommend them to users interested in specific subjects. Our recommendation strategy evolved with project growth, utilizing behavior modeling. Additionally, we implemented a transition matrix between topics, enabling users to explore new categories and personalize their idea recommendations. This matrix, combined with user profiling, differentiates recommendations and has the potential to predict future user interests.

Technologies:

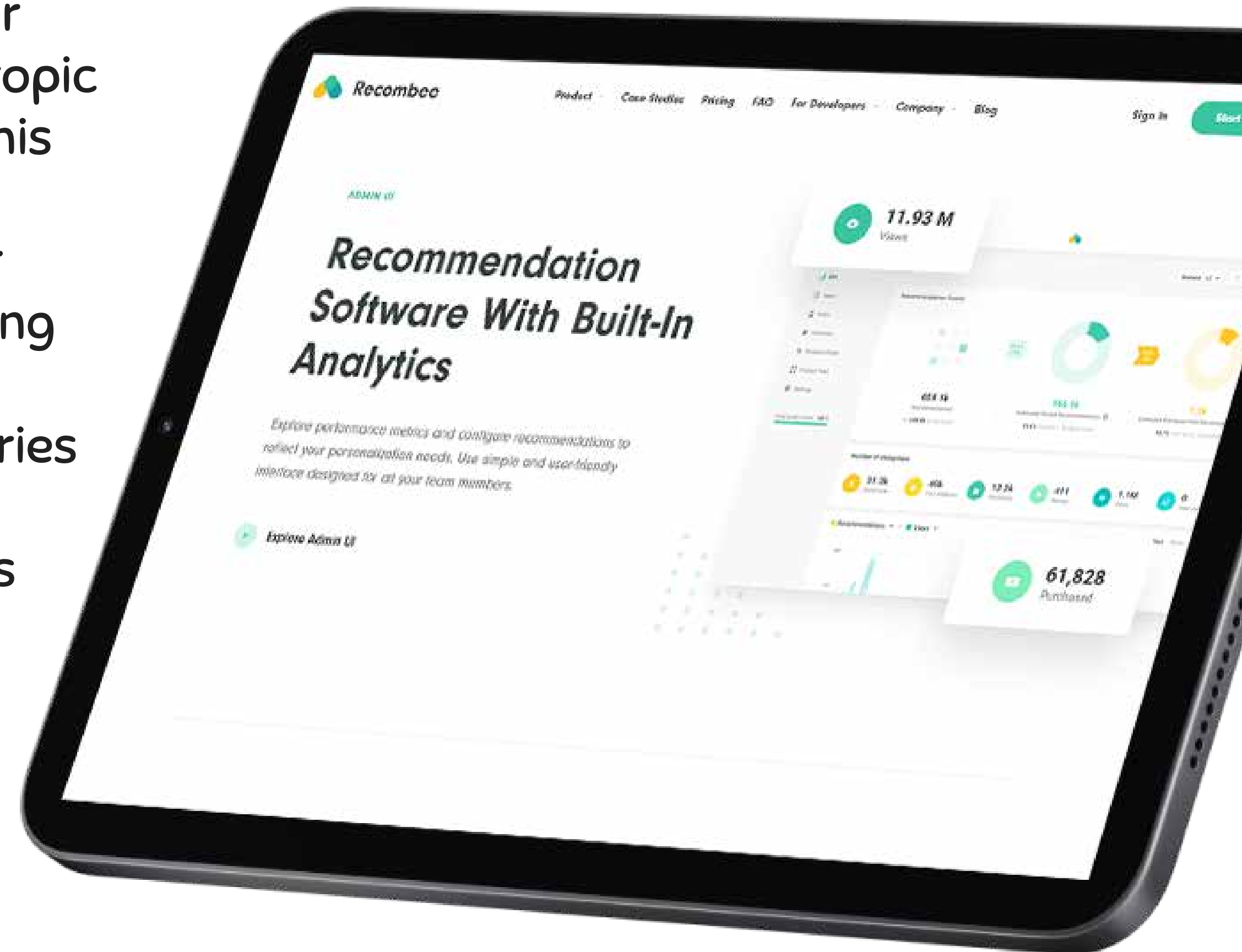
Python

SciKit Learn

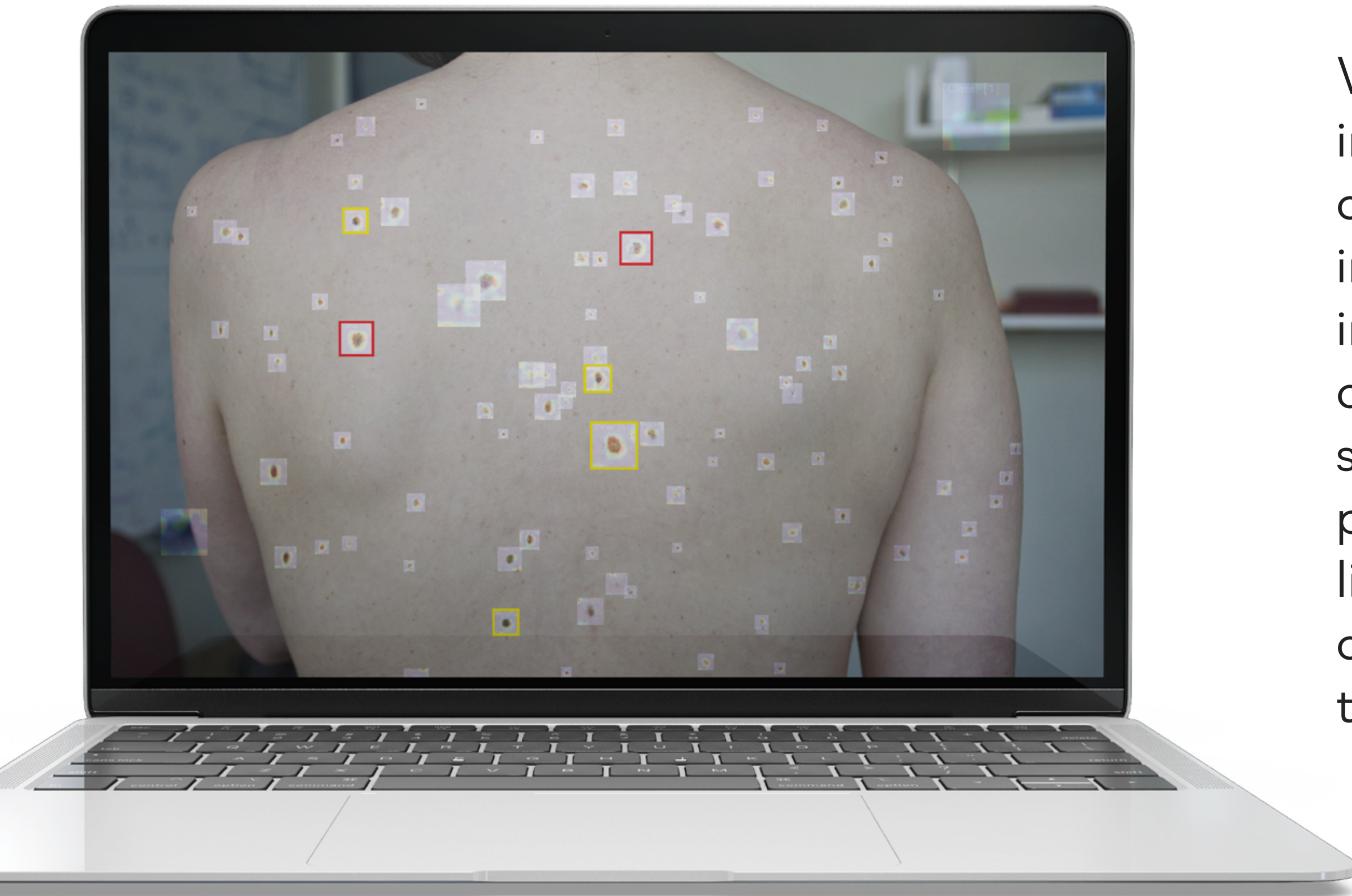
TensorFlow

Hugging Face

Google Cloud Platform



AI Home Skin Findings Detection



We developed a mobile application that allows users to get instant diagnosis and recommendations for their skin concerns. The app uses artificial intelligence to analyze the images of the user's skin and provide them with relevant information, such as the type, severity, and possible causes of their condition. The app also suggests potential next steps, such as home remedies, over-the-counter products, or professional consultation. The app connects the user with a list of dermatologists that are available for video consultation, and allows them to book an appointment with the one they prefer.

Technologies:

React Native

Python

Google Cloud Platform

PyTorch

PostgreSQL

AI Colonoscopy Report

We Delivered an AI-powered solution to assist gastroenterologists in performing colonoscopy procedures. The product features live detection and labeling of lesions and general findings during a colonoscopy, using a convolutional neural network (CNN) trained on a large dataset of colonoscopy images. The product also generates a quick and efficient colonoscopy report, with templated recommendations that can be fine-tuned by the gastroenterologist. and has the potential to predict future user interests.

Technologies:

Python

TensorFlow

Django

PostgreSQL

Amazon Web Services

CNN





AI-Powered X-ray Imaging System For Customs Control

We developed a cutting-edge AI-powered tool that accelerates customs checks while improving detection rates. This ambitious project involved building a production-ready infrastructure for the AI system, and creating an API for integrations with third-party web services. Our proper analysis and augmentation methods ensure that the system is continuously fed valuable data, which it uses to train itself and achieve even higher efficiency and accuracy.

Technologies:

Tech stacks

Python

Java

PyTorch

AI-Powered Mental Health Therapist App

We built a comprehensive solution for sustainable mental health. It features a dedicated chatbot powered by machine learning, allowing users to express their emotions and symptoms effortlessly. Additionally, the app offers cognitive behavioral therapy (CBT) tools, a thought record, and daily task planning. Data from the user's phone, such as sleep and activity, is seamlessly integrated. In crisis moments, the app provides stress-relief exercises and promotes skills like gratitude and mindfulness. Users can connect with mental health professionals for expert advice and share data for better diagnosis and treatment planning.

Technologies:

Python

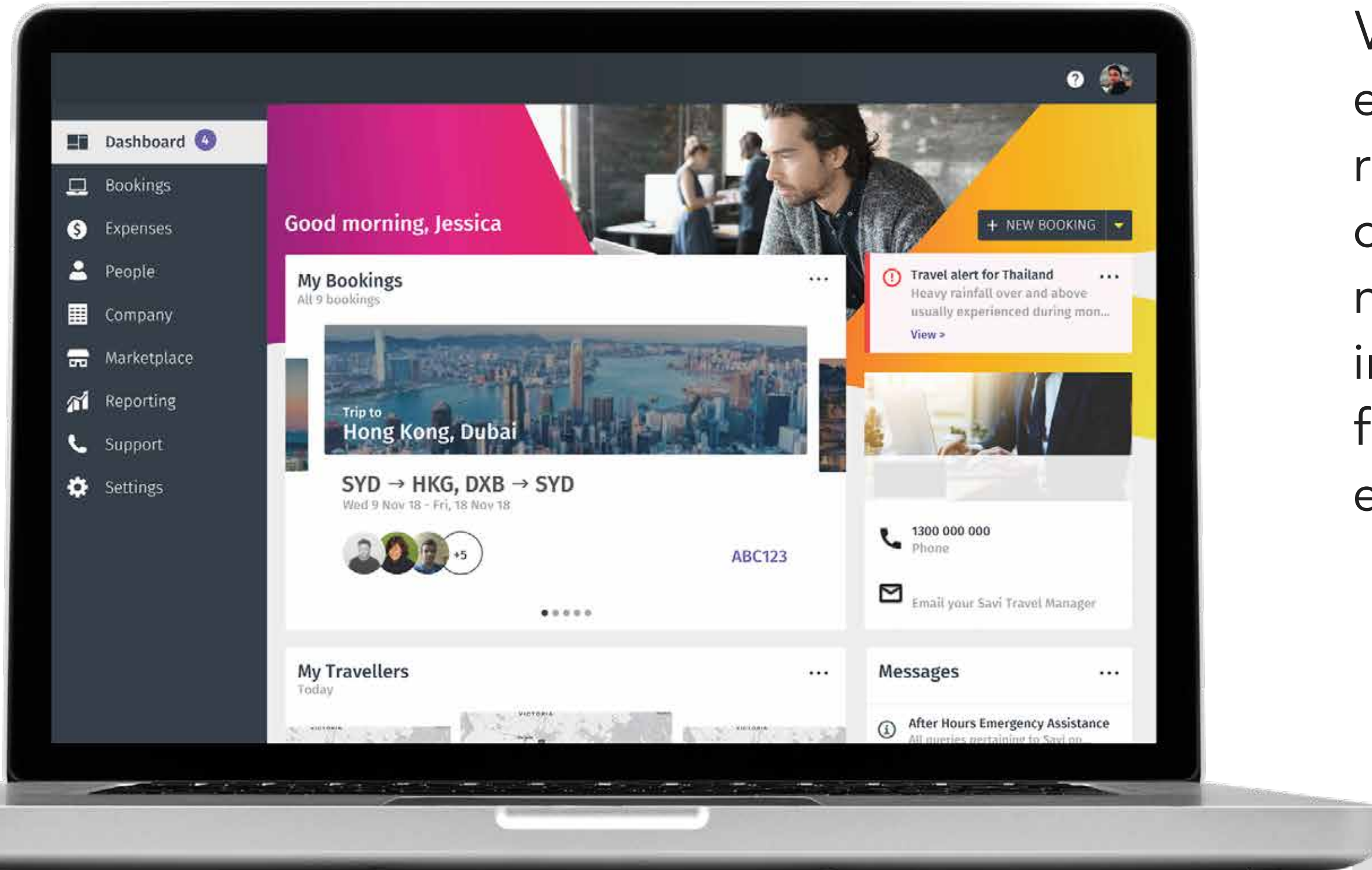
TensorFlow

Django



AI-Powered Corporate Booking Platform

We built a web application for business trips with an extensive range of travel options, management tools, and a recommender system. Direct integrations with providers offered special prices and offerings. Advanced user management, travel policy execution, and CRM/accounting integration streamlined the entire process. An NLP-based feature automatically extracted relevant information from expense photos for reimbursement.



Technologies:

Tensorflow

Python

Google Cloud Platform

MongoDB

Javascript

Java

We are trusted by clients from the USA, Canada, the UK, the European Union, Nigeria and more. Physical borders are not an obstacle, and our Developers are flexible enough to meet your requirements wherever you are.

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**Connect with us,
Let's craft AI solutions
Together!**