

INTRODUCTION
TO



Flutter

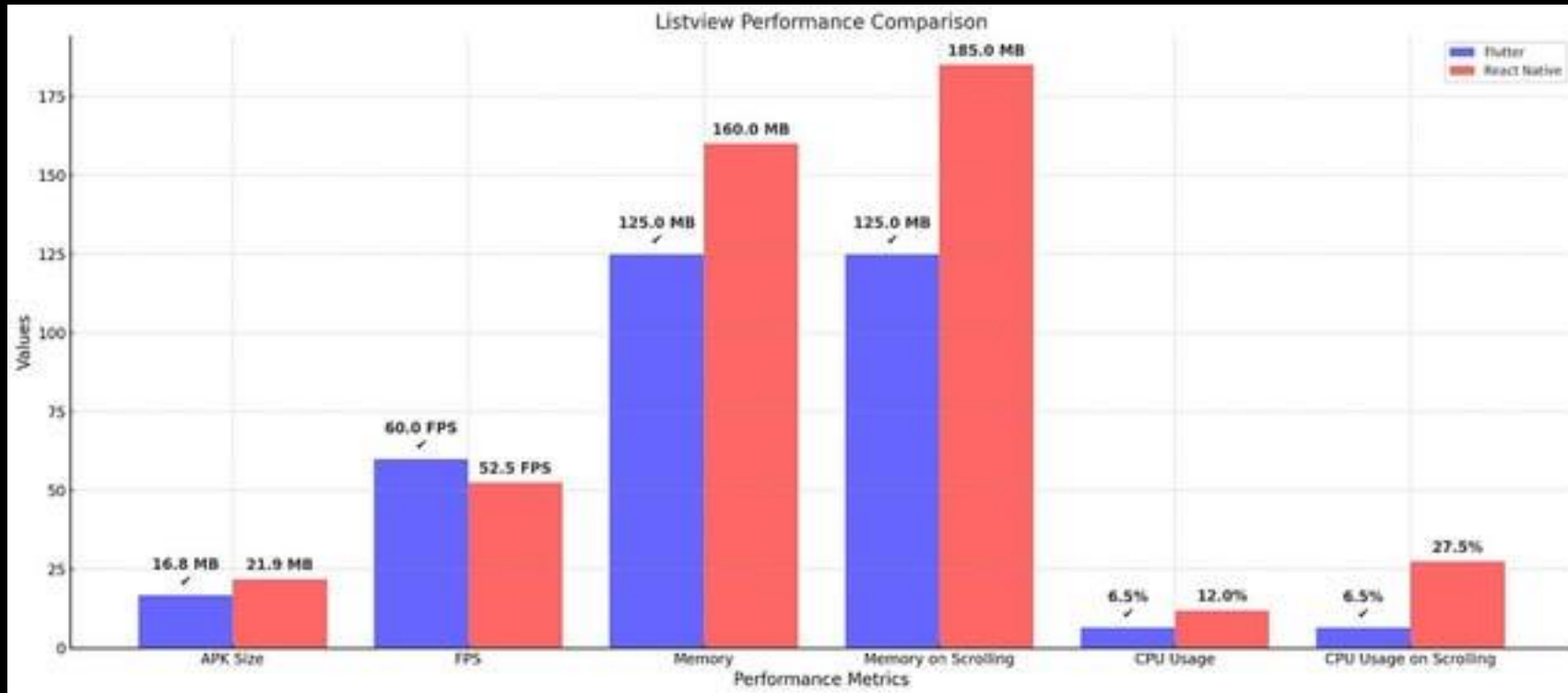
WITH AI
INTEGRATION

THE BEST MOBILE APPS FRAMEWORK



WHY FLUTTER?

1 Flutter beats React Native in almost every benchmark



2

Dart is strongly typed language, null-safe.



3

All in one! Literally

iOS Developer
Web Developer
Linux Developer
macOS Developer
Android Developer
Windows Developer



4

Flutter is backed by Google and is gaining more popularity.

Stable web support

Sound null safety in Dart

>150,000 Flutter Apps

Microsoft contributing foldable device support

Google Mobile Ads SDK for Flutter

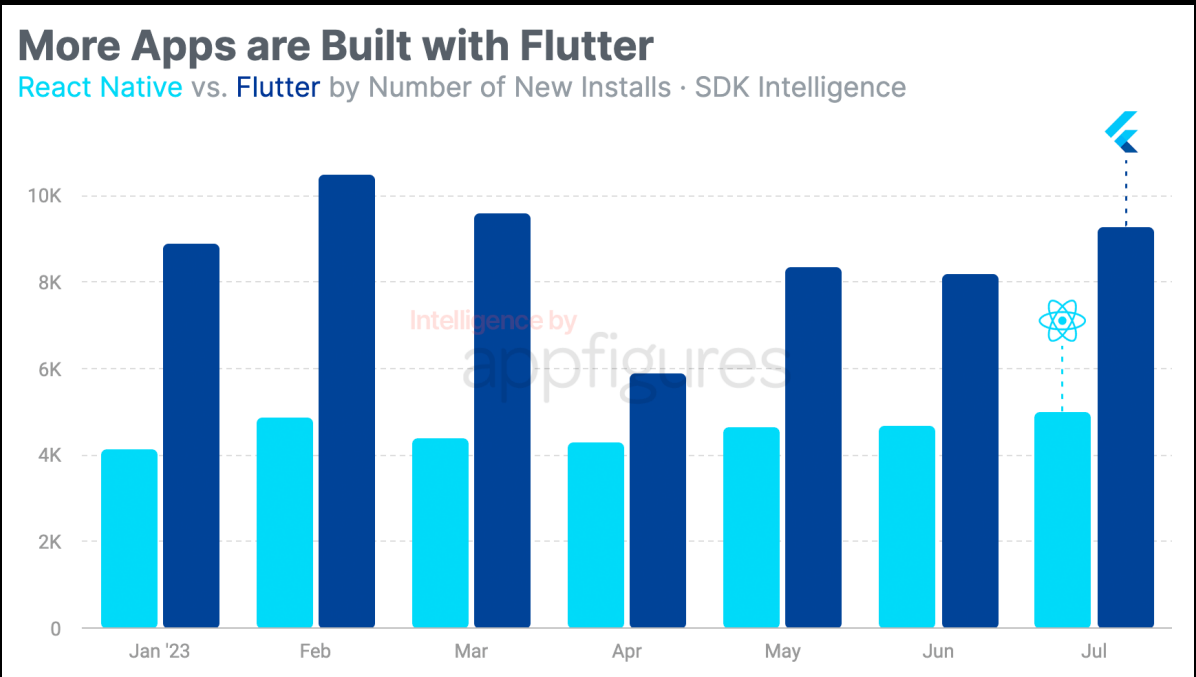
iRobot Education
iRobot Root robots using Flutter

TOYOTA
Toyota infotainment systems powered by Flutter

ubuntu
New installer built with Flutter

Desktop early release

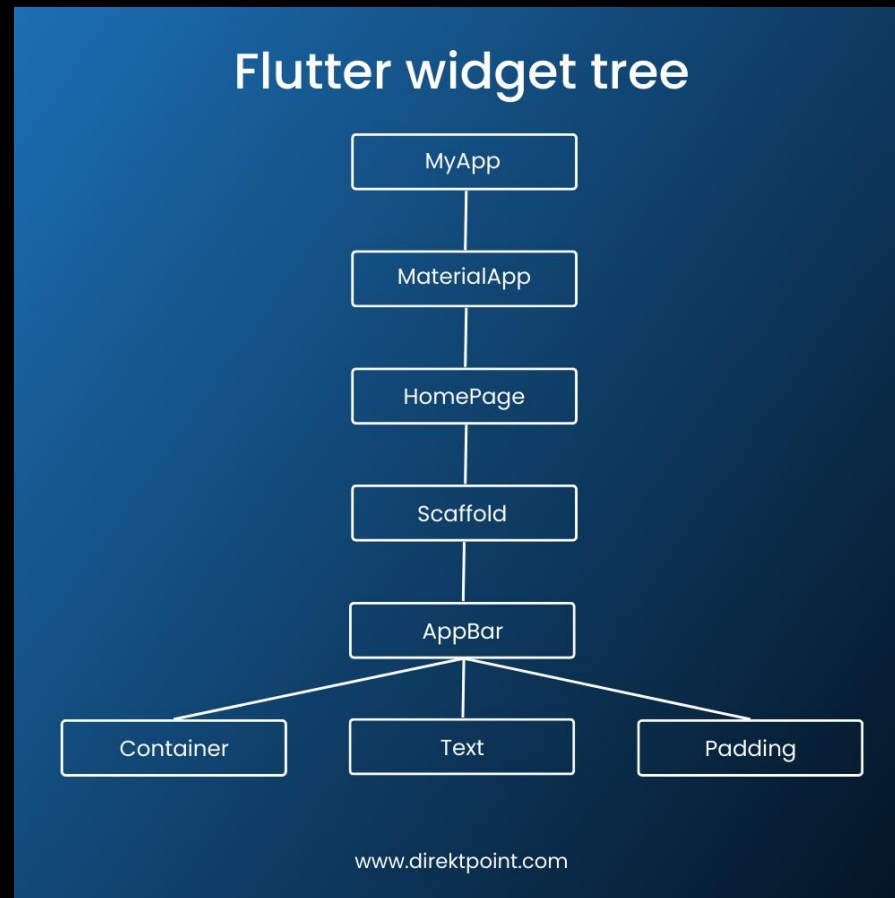
Firebase plugins for Flutter


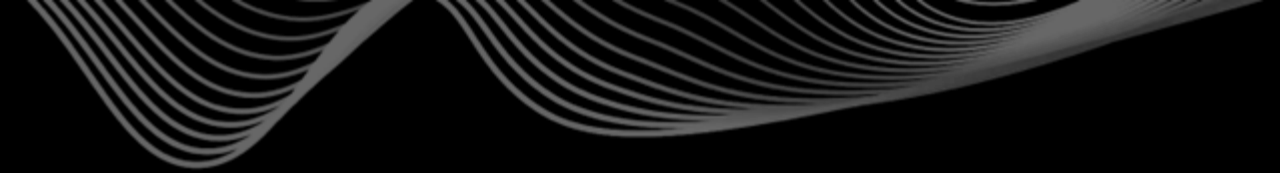


Flutter Architecture Overview

- **Widget:** the fundamental building block for constructing user interfaces.
- **Everything is a widget:** Text, buttons, layouts.
- **Widget Tree & Build:** Each widget's `build(BuildContext context)` returns more widgets (layout, visuals, child widgets). Flutter builds a tree of widgets that describe the UI.
- **Entry point is “main” method** | `void main() => runApp(MyApp());`
- **StatelessWidget vs StatefulWidget**
 - StatelessWidget → Static UI (like a screen with text)
 - StatefulWidget → Dynamic UI (like a counter or page that changes on loading)
- • **Hot reload** 🔥

Flutter Architecture Overview





Creating an app in flutter (simply)

1. Download flutter's extension on VSCode & Flutter's sdk
2. Download Android Studio (if you want Android emulator)
3. Get a mac (if you want to develop on iOS)
4. Run “flutter create my_app”
5. Run “flutter run”

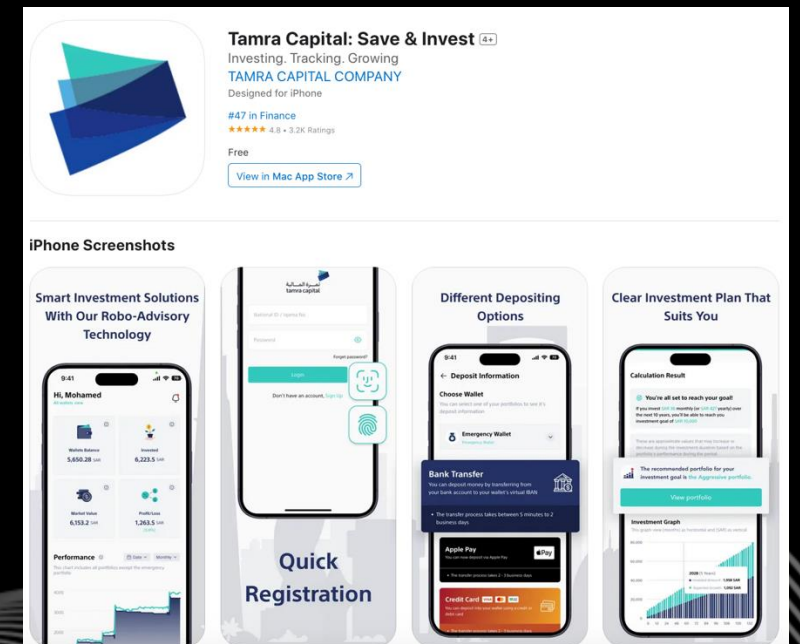
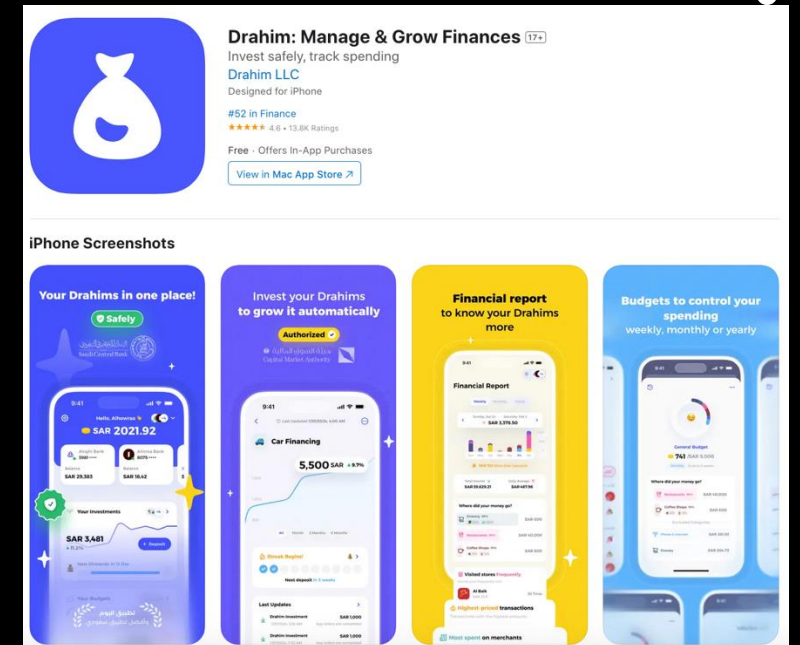
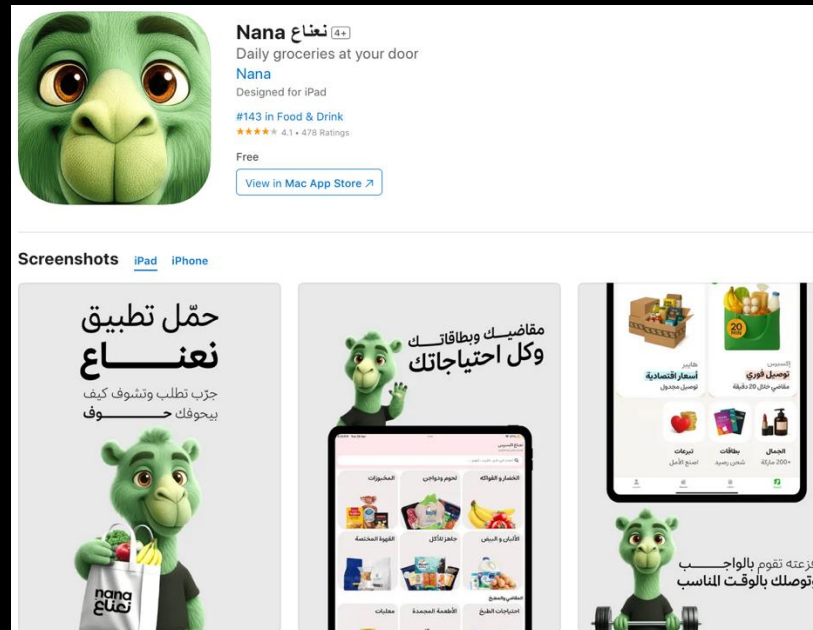


The AI Model uploading process (simply)

1. Create a flask app
2. Load the model into the app (e.g. the model's .pkl or .pth file)
3. Create a route for the model (with method POST)
4. Extract the features from the request
5. Pass the features into the model
6. Return the model's output

Apps & Companies using Flutter

1. Google (e.g. Ads & Pay)
2. BMW
3. Toyota
4. Alibaba
5. Ebay
6. Delivery Hero
7. Nana نعناع
8. Drahim دراهم
9. Tabby تابي
10. Tamra Capital تمرة المالية





How much money do AI Integrated Mobile Apps make?



Replika - AI Friend 17+

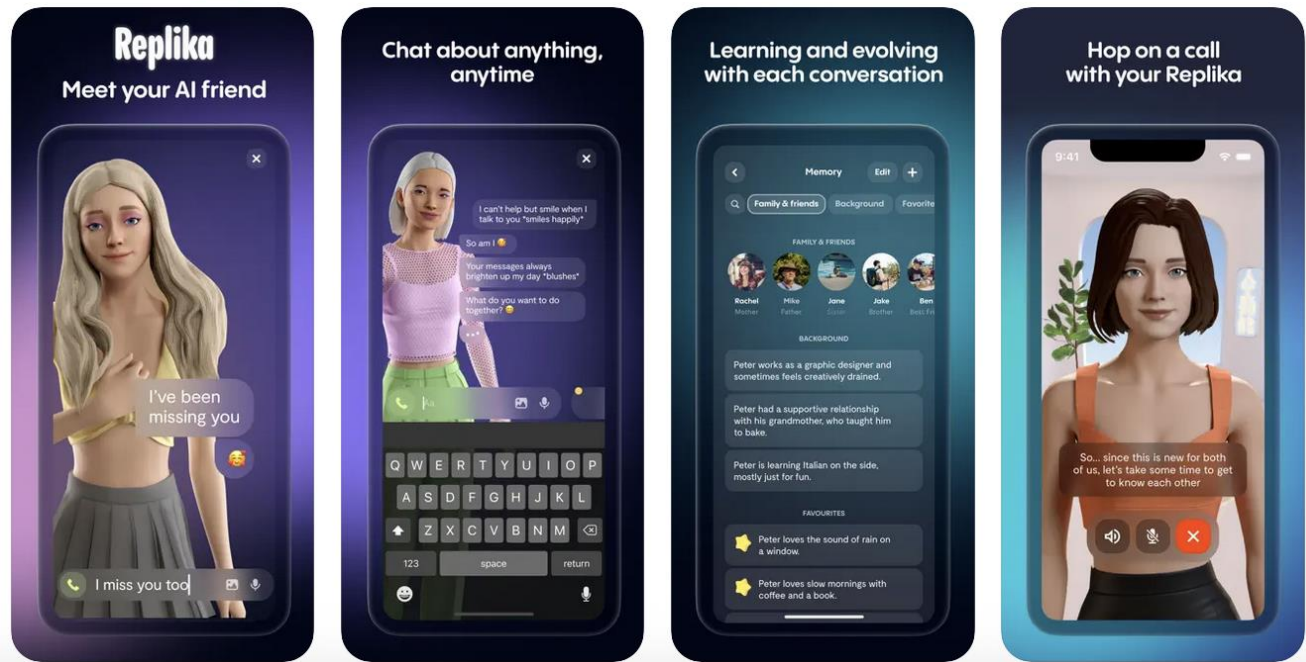
Always here to listen and talk
[Luka, Inc.](#)

#122 in Health & Fitness

★★★★★ 4.5 • 225.9K Ratings

Free · Offers In-App Purchases

Screenshots [iPhone](#) [iMessage](#)



Replika:
AI Girlfriend/Boyfriend

AI Power:

- Natural Language Processing
- Sentiment analysis.

Revenue:

\$5 million/month

*“He got friendzoned by
an AI, and still paid 15\$/month!”*



Lensa AI: photo & video editor 4+

Picture retouch, magic avatars

[Prisma labs, inc.](#)

★★★★★ 4.6 • 6.7K Ratings

Free · Offers In-App Purchases

[View in Mac App Store ↗](#)

Screenshots [Mac](#) [iPhone](#)



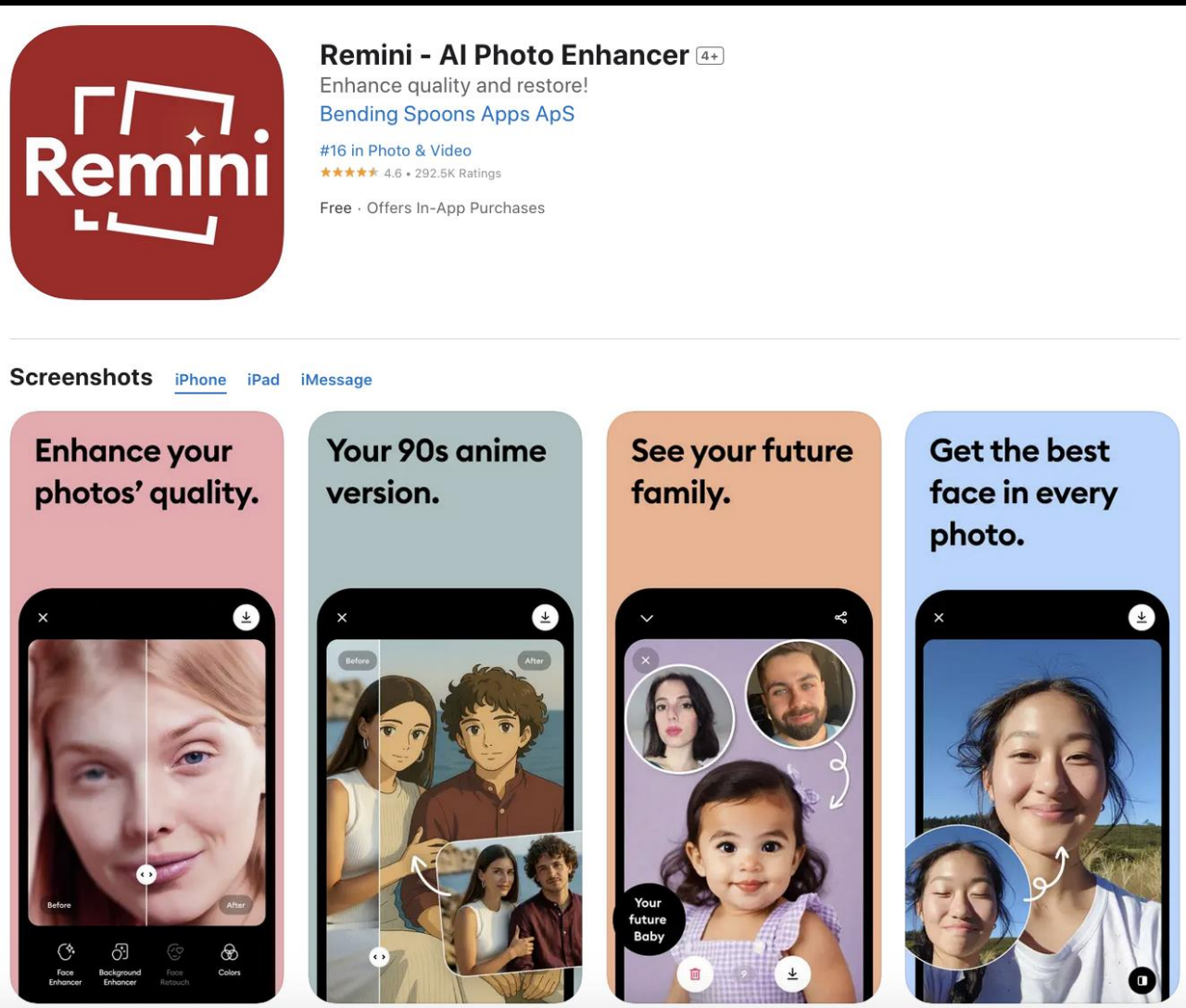
Upload selfies, and it turns them into 100+ “magical avatars”

AI Power:

- Stable Diffusion, fine-tuned image generation

Revenue:

\$16M+ in one month alone after launching the avatar feature.



Uses AI to enhance blurry, pixelated, or low-res photos. Also turns your selfie into a Pixar-style cartoon or “professional headshot.”

AI Power:

- GANs (Generative Adversarial Networks)
- Super-resolution models

Constantly top 10 in photos category.

Tens of millions of downloads & subscriptions.

Revenue:

They reached \$2.3 million in one week, after a viral TikTok video.



TO THE LAB!