



Avohi Technology Competencies

What we can do to help you succeed

M L / A I

Artificial Intelligence

Machine Learning and Artificial Intelligence based applications

I o T

Internet Of Things

IoT based enterprise automation to IoT based mobile applications in various industry verticals

B i g d a t a

Analytics

Big data using Hadoop, Spark for storing and retrieving actionable insights from the data stored

B C

Blockchain

Blockchain based hybrid and distributed application building and deployment

T S

Technology Stack

Our technology stack competency

In the rest of the document, for customers with whom we have signed NDA (non-disclosure agreement), their names are not mentioned only the verticals they operate under is mentioned.

Blockchain Case Studies



Case Study – Legal Company (NDA)

Requirement – Blockchain based POE

- To create a platform for enabling proof of existing of the documents.
- Digitally signed documents to be pushed into the private blockchain network
- Enable exploration of business model with quick

POC Details

- **Infrastructure**
 - Create infrastructure on local Datacenter
 - Enable easy DevOps on the infra

Our Role

- Hyperledger based solution was proposed
- Integration of Hyperledger based solution with the company's existing web based application for proof of existence
- Consulted on technology stack and solution
- Worked aggressively to achieve the MVP for deployment

Case Study – FINTECH company (NDA)

Requirement – Ethereum based ERC20 tokens

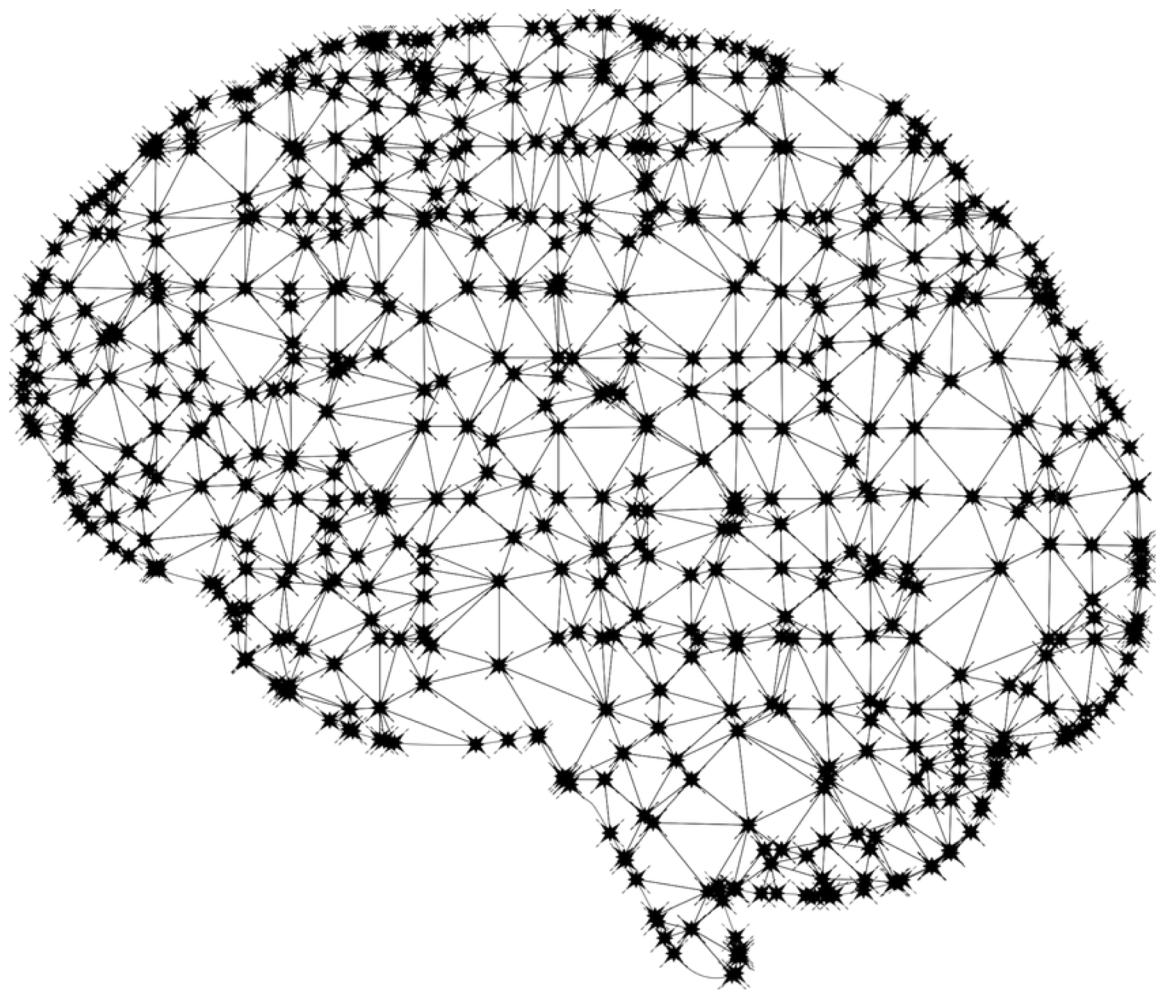
- To create a loyalty platform for the customers of their fintech application
- Create ERC20 tokens for distribution to the customers to trade
- Enable exploration of business model with quick

POC Details

- **Infrastructure**
 - Create infrastructure on local Datacenter
 - Enable easy DevOps on the infra

Our Role

- Ethereum based solution was proposed
- ERC20 tokens for loyalty creation and funding
- Tradable and exchangeable tokens
- Hosting the Ethereum and the mining network among their various partner locations
- CI/CD infrastructure for DevOps



ML/AI Case Studies

Case Study – Learning Management Platform (NDA)

Requirement – Adaptive Learning

- To create an extension to the Learning management platform to include AI based recommendation for personalized training
- Enable exploration of business model with quick

POC Details

- **Web App**
 - Data insights for teachers and schools
 - Government dashboard with insights on performance
- **Infrastructure**
 - Data collected per day is more than 5 million records
 - All the records are stored for ever

Our Role

- Hadoop, HDFS and Spark based infrastructure
- AI algorithm for personalized learning recommendation
- Dashboard with detailed analytics for the generated insights

Case Study – Fintech Company (NDA)

Requirement – AI based personalized recommendation

- To create an extension to the existing platform to include AI based recommendation for personalized experience

Details

- **Android App**
 - For recommendation for each user
- **Infrastructure**
 - Data collected is stored in Postgres DB
 - All the records are stored for ever

Our Role

- Postgres-Spark based infrastructure for faster querying
- AI algorithm for personalized recommendation on the usage of the product
- Web based Dashboard with detailed analytics for the generated insights for company admin

Case Study – Kimberly-Clark

Wetness Sensor for Diaper

- The iOS/Android application will have the capability to record wetness events and diaper changes
- Allowing secure connectivity with the wetness detector via Bluetooth Low Energy (BLE)
- AI Digital Assistance Integration

Details

- **Android App**
 - BLE GATT based device interaction for collection of wetness level
- **Web App**
 - Data insights
 - Device Status

Our Role

- Built the iOS SDK to interact with the BLE device
- Incorporate the SDK into iOS application for end customer usage
- **Alexa Skills**
 - Custom Alexa skills were built for the customers of Kimberly-Clark for using with the device
 - Hosting of the skill to Alexa skill store for any one to download and use
- **Google Home**
 - Google actions integration for customers of KC
 - For using with phones with google assistant
 - Ecom is tied to google express for purchasing



IoT Case Studies

Case Study – Sensogram

Requirement - Smart Platform

- To create a single platform for all available healthcare wearables
- Enable exploration of business model with quick POC

Details

• **Android App**

- BLE GATT based device interaction for collection of vitals
- Home security device integration

• **Web App**

- For Nurse, admin etc
- Data insights for health parameters

• **Infrastructure**

Our Role

- End-to-end development and Integration with BLE health monitoring devices to detect and capture heart beats, respiration rate, pulse, SPO2, Blood pressure, weight ECG etc.
- Admin dashboard with progress card
- Consulting on technology and business model on how best we can create UX and business around the product
- DevOps for the infrastructure deployment and management in Amazon
- MVP requirements finalization

Case Study – Car Manufacturing Company (NDA)

Requirement – Enterprise IoT Automation

- Interconnect with existing SAP and SAP HANA platform for push and pull of data
- Automate the factory workflow with PICAPICA system

Details

- To create a FOG server for IoT devices to interact with
- Collect order details from SAP and create PICAPICA system with the IoT devices
- Collected data will be sent to SAP HANA on a weekly basis

Our Role

- End-to-end development and Integration with Linux based FOG server.
- Data collected stored and responded back from FOG server
- FOG server acts as proxy between IoT device and MQTT format to SAP HANA
- Send entries stored to HANA once weekly (due to internet cost in the place)
- Complete factory floor IoT based automation which reduced the lead time of order received to finished part

Case Study – Kimberly-Clark

Wetness Sensor for Diaper

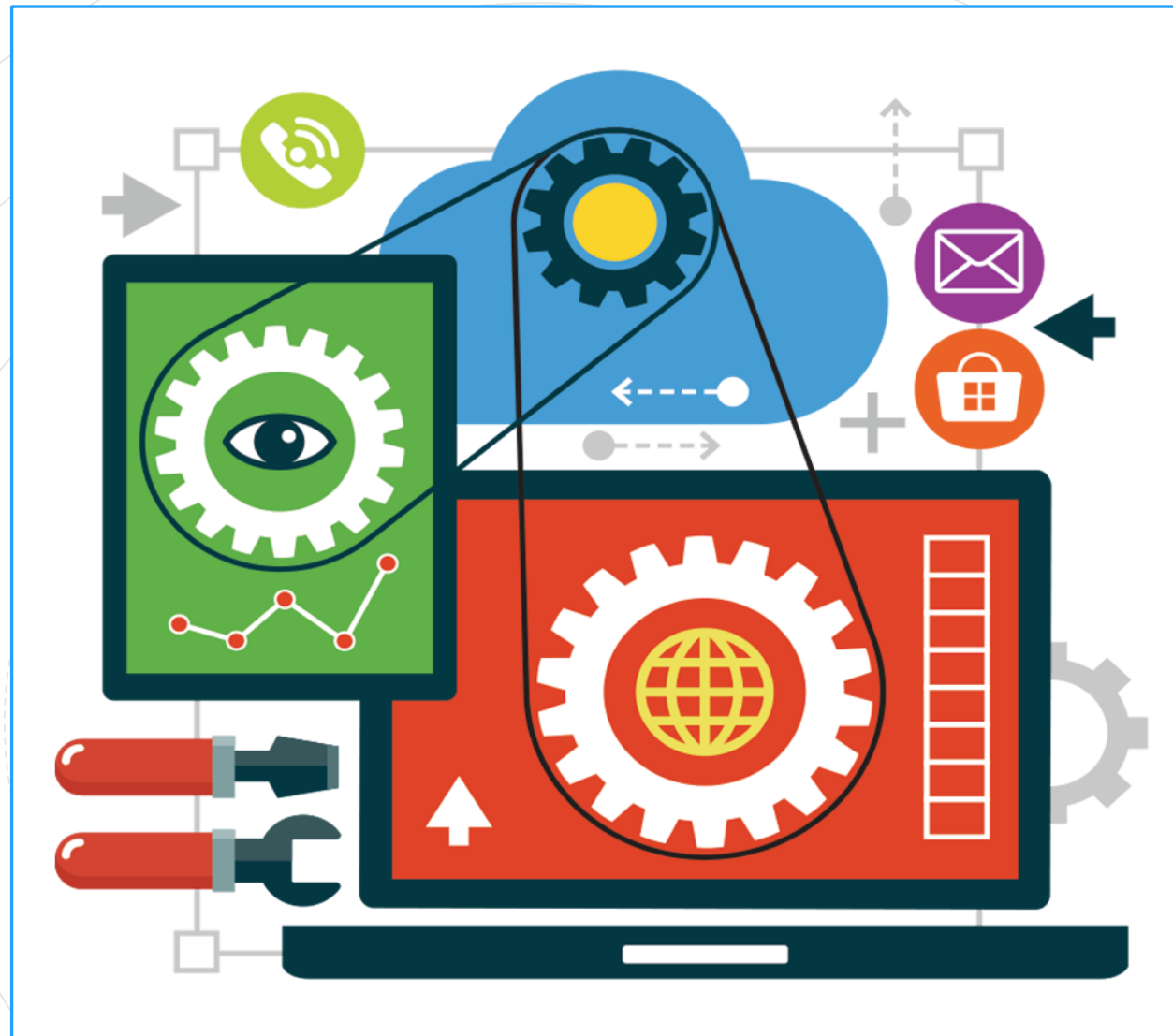
- The iOS/Android application will have the capability to record wetness events and diaper changes
- Allowing secure connectivity with the wetness detector via Bluetooth Low Energy (BLE)
- Digital Assistance Integration

Details

- **Android App**
 - BLE GATT based device interaction for collection of wetness level
- **Web App**
 - Data insights
 - Device Status

Our Role

- Built the iOS SDK to interact with the BLE device
- Incorporate the SDK into iOS application for end customer usage
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Technology Stack

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Thank You

Think Avohi for all your digital transformation assistance