

Unlocking the Power of SAP BTP Development with AI: Strategies and Considerations

- Who we are
- Al market and predictions
- Benefits of AI in SAP BTP
- Demo
- Al ethics and privacy



WHO WE ARE



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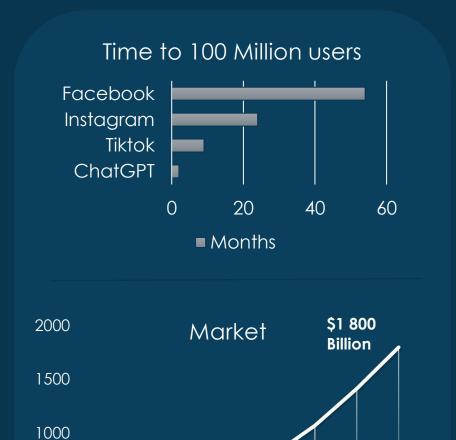
Pearl Group

- Nordics largest SAP Partner
- 400 Employees
- 125+ Customers
- PearlS/4Move SAP certified since 2019
- 32 successfull S/4Hana projects in production



Al Disruption

- 2023 is generative AI's breakout year
- ChatGPT speed of growth:
 - July 2023 visits/month 1.5
 Billion.
- Microsoft announced 365Copilot



Your Business. Next Level

2030

\$200 Billion

2023

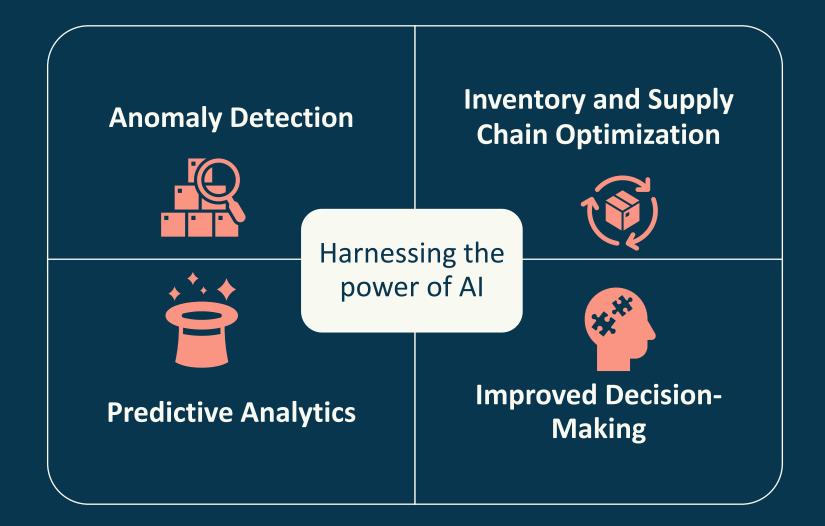
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Prediction

- Comprehensive Al Integration
 - Personal assistant in your favorite daily tools.

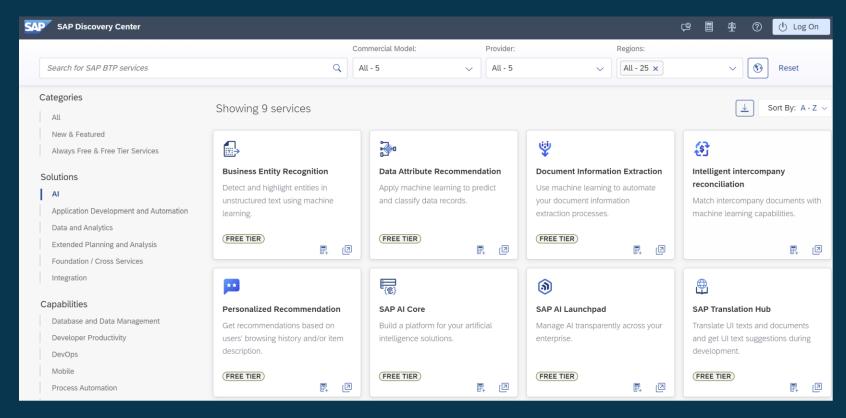
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What about Al and SAP BTP?



https://discovery-center.cloud.sap/index.html



PROGRAMMING WITH A PERSONAL ASSISTANT AI

Github Copilot

- An Al-powered coding assistant developed by GitHub in collaboration with OpenAl. It is designed to assist developers in writing code more efficiently and effectively by providing suggestions, autocompletions, and even generating entire code blocks.
- Utilizes the identical language model as ChatGPT (GPT-4 version).

More Tools

- SAP Joule
- ABAP GPT
- Amazon CodeWhisperer
 - Similar to Copilot, Al-powered coding assistant by Amazon
- ChatGPT
- DALL-E
 - Al model developed by OpenAl that generates images from textual descriptions



Al makes me 57% faster

More fulfilled with my job



Focus on more satisfying work

I want to create a **BTP application** for a bookshop. I'm a developer in BTP space and use **Generative AI** to help me with the development while keeping the **core clean**.



AI GENERATED FIORI UI

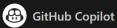
```
Niew1.view.xml 1, U
example-app > app > project1 > webapp > view > a View1.view.xml
  1 <mvc:View controllerName="fi.pearl.demo.project1.controller.View1"</pre>
          xmlns:mvc="sap.ui.core.mvc" displayBlock="true"
          xmlns="sap.m">
          <Page id="page" title="{i18n>title}">
                  <!-- Create sap.m. Table for displaying Books from CAP service -->
                                                                                               Pearl demo
                                                                                                tableTitle
                                                                                                                                                                             tableRefreshButtonText
                                                                                                tableColumnID
                                                                                                                                   tableColumnTitle
                                                                                                                                                                      tableColumnStock
                                                                                                                                   Wuthering Heights
                                                                                                1
                                                                                                                                                                      100
                                                                                                                                   Jane Eyre
                                                                                                 2
                                                                                                                                                                       500
```



AI AS PAIR PROGRAMMER (SAPUI5)



How can I modify the UI to delete a Book from backend service



To modify the UI to delete a book from the backend service, you can add a delete button to each row in the table. When the button is clicked, it will trigger a function that sends a DELETE request to the backend service to delete the corresponding book. Here's an example of how you can modify the code:

```
tableColumnStock tableColumnDelete

100
```

```
Event handler of "sap.m.Button~press" | 1 reference
onDelete: function (oEvent) {
    var oList = this.getView().byId("List");
    var oItem = oEvent.getParameter("ListItem");
    oList.removeItem(oItem);
}
```



AI AS PAIR PROGRAMMER (SAP CAP)

```
example-app > srv > JS cat-service.js > ...
      // Imports
       const cds = require("@sap/cds");
       module.exports = cds.service.impl(async fu
                                                             module.exports = cds.service.impl(async function () {
  4
           const { Books } = this.entities;
                                                                 const { Books } = this.entities;
                                                                 this.after('DELETE', 'Books', async (req) => {
                                                                      const book = await cds.transaction(req).run(SELECT.one(Books).where({ ID: rec
                                                                      if (book.stock > 0) {
                                                                          req.error(409, `Cannot delete book with stock`);
        extend CatalogService Books on delete with logic to not allow to delete books with stock
                                                                                              \triangleright
        Accept Discard V ひ
                                                                               Changed 8 lines 🖒 🕏
```

bearr

ETHICAL GUIDING PRINCIPLES OF AI:





KEY PRIVACY PILLARS

Data Collection & Usage

Clear information about what data is being collected, how it's being collected, and the specific purposes for which it will be used. This should encompass both personal and non-personal data.

User Consent

Details on how user consent is obtained and the ability for users to opt-in or opt-out of data collection and processing activities.

Data Security

A commitment to maintaining the security of the data collected, including measures such as encryption, access controls, and regular security audits.

User Rights

Explanation of the rights users have regarding their data, including the right to access, correct, or delete their data.



Brad Smith, Microsoft:

"Don't ask what computers can do, ask what they should do."

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