AI-Powered NSAP Pension Scheme Prediction Using IBM Cloud

1. Set up IBM Cloud

- Go to https://cloud.ibm.com
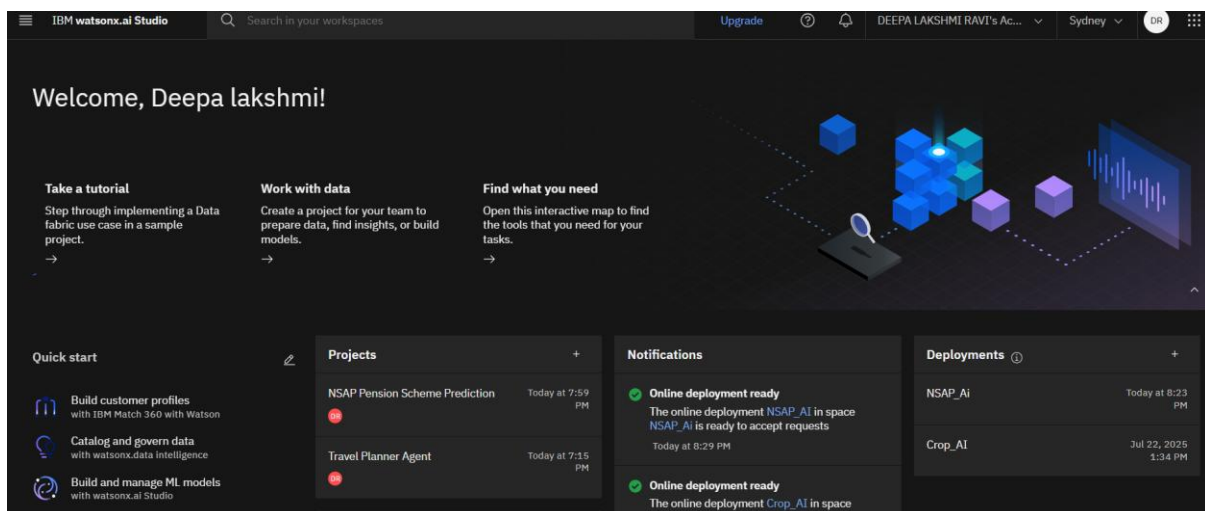- Create a free **IBM Cloud Lite** account

2. Launch Watsonx.ai Studio

- In the **IBM Cloud dashboard**, go to **Catalog**
- Search **"watsonx.ai"**, click **Create**
- Launch **watsonx.ai Studio**
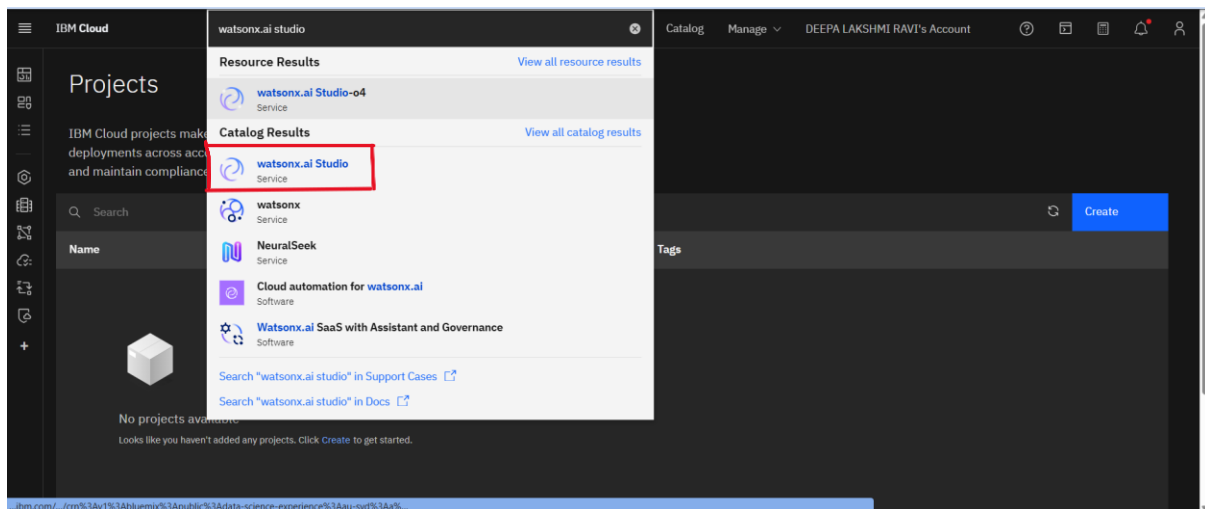
3. Create a Project

- Click **"Create Project"**
- Give a name: NSAP Pension Prediction
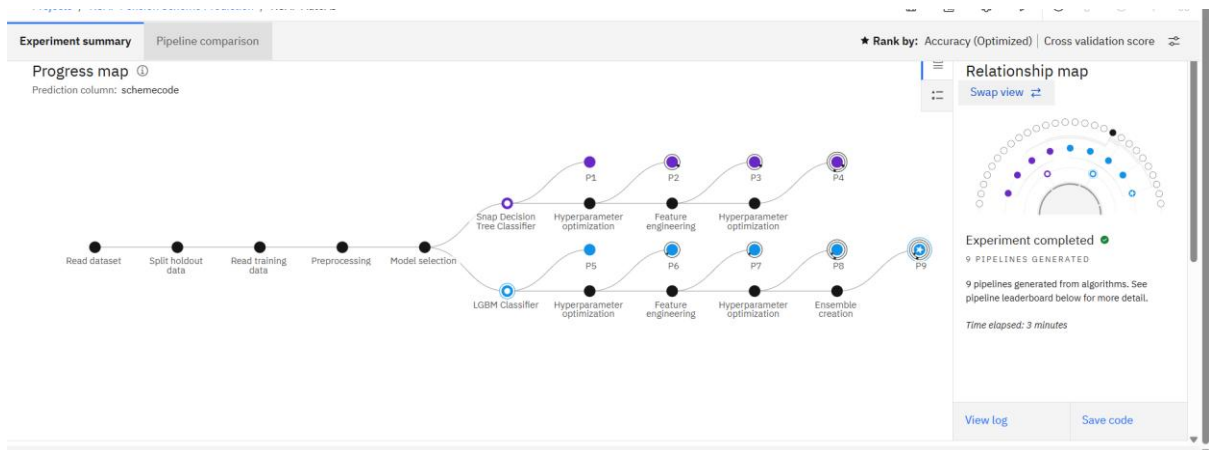- Add **Cloud Object Storage** if prompted

4. Upload Dataset

- Download dataset from:
  [AI Kosh NSAP Pension Dataset](#)

- Inside your project → Go to **Assets > Add data asset**

- Upload the CSV file

5. Run AutoAI Experiment

- Click **New Asset > AutoAI Experiment**

- Choose your uploaded CSV as data source

- Select **target column**: schemecode

- Click **Run Experiment**

6. Choose Best Model

- Review model leaderboard (accuracy should be ~1.0)

- Click **Save as Model** for the top performer

7. Deploy the Model

- Go to **Deployment Space** > Create new if needed

- Promote model to space → Deploy it

- Click **Test** tab to try sample inputs and get predictions

8.Test the model online

Result

- Model Accuracy: **100%**

- Type: **Multi-class Classification**

- Input: Beneficiary data like gender, caste, Aadhaar status

- Output: Scheme name (e.g., IGNOAPS, IGNDPS, IGNWPS)

End Users

- Government welfare departments

- District data officers

- Citizen Service Centers (CSCs)

- Pension applicants (via UI/API)

Wow Factor

- Built using **IBM AutoAI with no code**

- Achieved **100% model accuracy**

- End-to-end pipeline: Upload → Train → Deploy → Predict

- Scalable for **PAN-India scheme automation**

Conclusion

This project simplifies pension scheme classification using AI. It reduces manual work, improves delivery speed, and ensures that the right beneficiaries receive the right benefits.