



COP 5090

Final Project



FLORIDA POLYTECHNIC
UNIVERSITY



12/04/2023

A presentation by **Alex & Jan**



Introduction to our Project

Finding a Problem...

After thinking back to our first Lab in Computation Data Analysis, where we were introduced to Linear Regression in R and at the same time extremely confused, we decided to choose this as our problem.

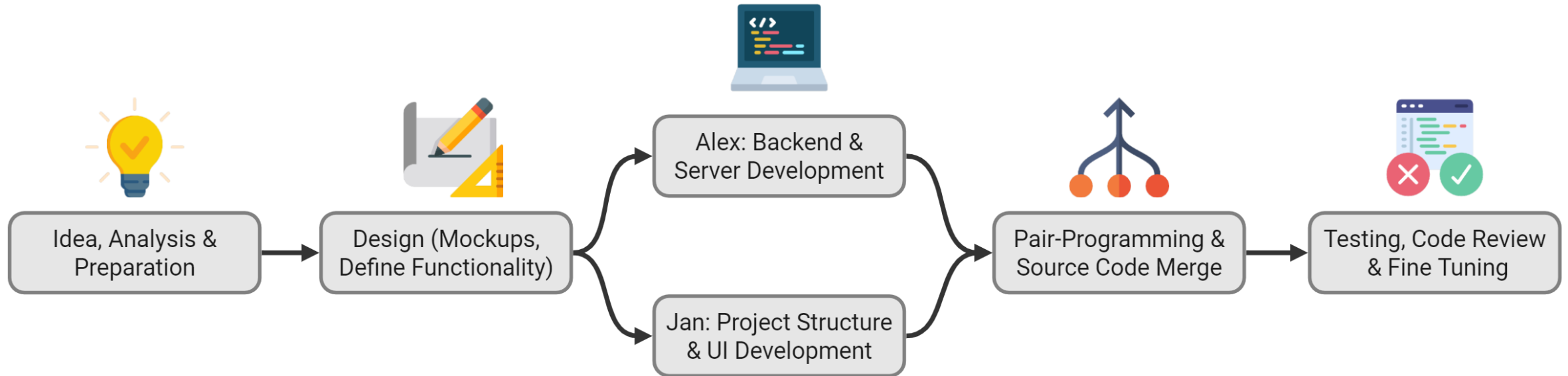
“How can we combine our knowledge in predictive modeling with Shiny for a useful app for fellow students?”

High level Predictive Modeling





Methodology



Main Idea

Our approach to crafting the Shiny app was a collaborative endeavor that involved backend development and modular structure-building, resulting in a cohesive and user-friendly UI. The process was a joint effort between Alexander, who focused on the backend, and Jan, who concentrated on structuring modules and the UI.



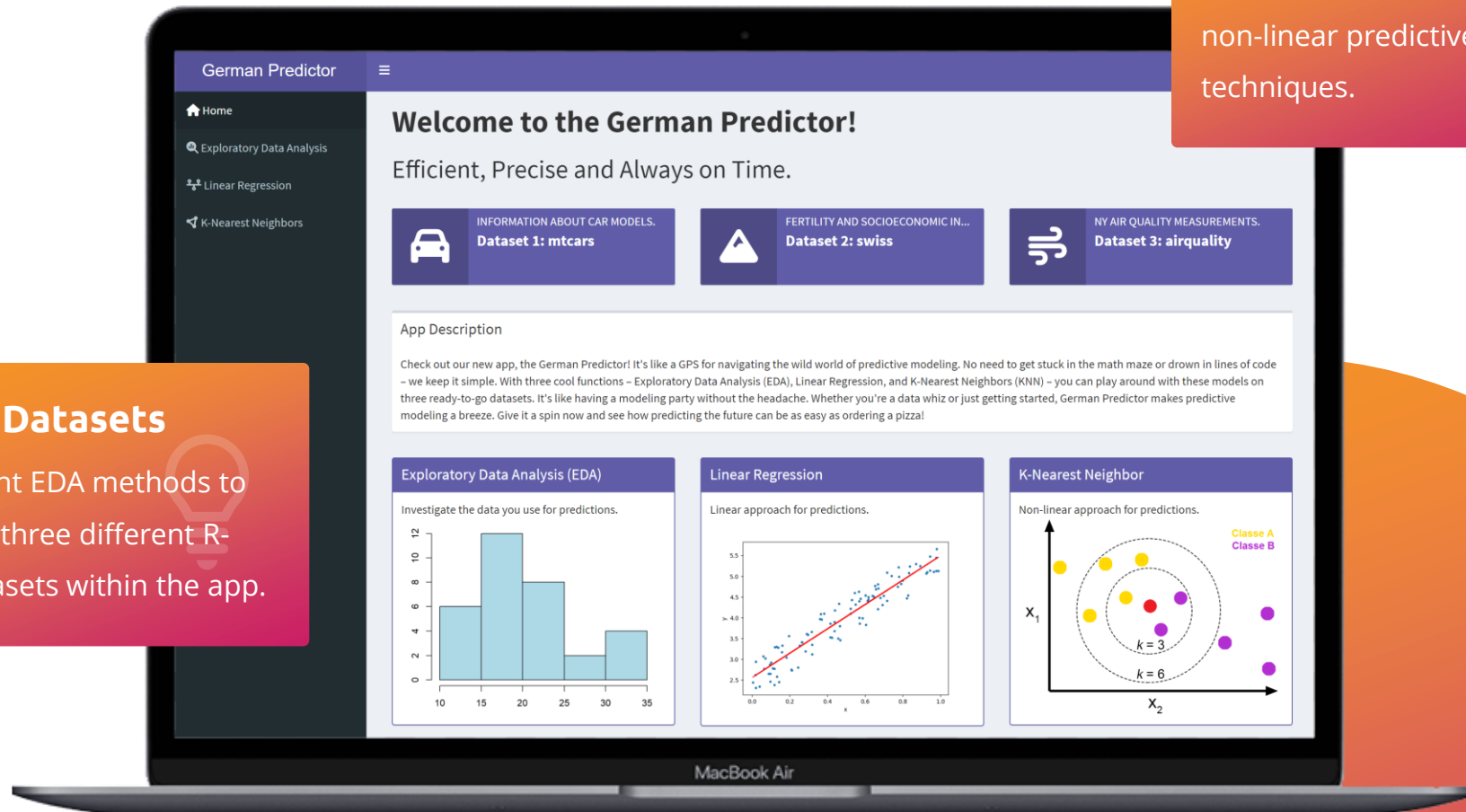
Live Demonstration

Make Predictions

Make use of linear as well as non-linear predictive modeling techniques.


Explore Datasets

Use different EDA methods to investigate three different R-known datasets within the app.





Conclusion & Future Work



Man, I love
the *German*
Predictor!

- **Successful combination** of the in this semester acquired predictive modeling and R knowledge
- Application with **straight forward UI** to make EDA and predictions on an abstract level
- Web development skills help a lot, but even without, Shiny represents a framework with **relatively low entry hurdle**
- **Different “Future Work” ideas**, like more algorithms, an expert mode, more data flexibility, export options and comparison pages for different approaches.



Thank you. Questions?



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