PLAN OF STUDY – MASTERS IN TLI

Open Digital Innovation

-        Manthan Keim

08/30/2022

IRONHACKS

Fall 2021

STAT 501
Experimental Statistics - I

- ❖ Applied Statistics
- ❖ Experiments
- ❖ Sampling Distributions
- ❖ Confidence interval
- ❖ Hypothesis Testing
- ❖ Anova

TLI 520
Foundation of Innovation Studies

- ❖ Work on a grant proposal or a business idea which is innovative

ECE 570
Artificial Intelligence

- ❖ Unsupervised learning techniques
- ❖ GAN
- ❖ Density Estimation
- ❖ PCA
- ❖ Paper Review
- ❖ Video presentation

Spring 2022

STAT 502

Experimental Statistics - II

- ❖ Multiple Regression
- ❖ Two-way ANOVA
- ❖ ANCOVA
- ❖ Factorial Designs

CS 573

Data Mining

- ❖ Predictive Modelling
- ❖ Exploratory Data Analysis
- ❖ Descriptive Modelling
- ❖ Pattern Mining

CS 577

Natural Language Processing

- ❖ Sequence Prediction
- ❖ Text Classification
- ❖ N-gram models
- ❖ Neural Networks
- ❖ Semantics
- ❖ Sequence Modeling

IRONHACKS

- **TECH 646**
- **Analysis of Research in Ind&Tech**

  - ❖ Dissertation/Thesis writing class

- **CNIT 581**
- **HCI**

  - ❖ UI/UX
  - ❖ Experimental Design
  - ❖ Prototyping
  - ❖ User Testing

- **CGT 670**
- **Application in Visual Analytics**

  - ❖ Data Visualization techniques
  - ❖ Case studies on Realtime visualization
  - ❖ VAST Challenge

NSF

PURDUE
UNIVERSITY

**Spring
2023**

- # **Thesis**

- ## **Studying cognition of participants using IronHacks as a tool**

  - ❖ The comparative performance of pairs and induvial
  - ❖ Implementing a recommender system using Stackoverflow