SUSANTA **DEKA**

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check for latest updates

E X P E R I E N C E

INSTITUTIONAL REPORTING & SUNAPSIS SPECIALIST, OFFICE OF INTERNATIONAL SERVICES, INDIANA UNIVERSITY (2020 - 2022)

- Institutional Reporting for Executive Director & Associates
  - Admissions Point in Cycle - Year-over-Year (YoY) Comparison
    - Compared enrollment of students based on their level (Undergrad, Grad, etc.), their admit term (Fall, Spring) and their admit campus i.e. campuses of Indiana University (IUB, IUPUI, IUSBA, IUSEA, etc.)
    - Used Tableau to generate dashboards & reports to showcase change percentage
    - Used Excel for YoY comparison charts
  - Immigration Compliance Reports
    - Worked on weekly reports to identify students who are either under-enrolled or belong to specific student groups
  - Worked on other Term based Reports (e.g. Open Doors Scholar Survey, Census Report, etc.)
- sunapsis Specialist
  - Led sunapsis implementation projects for clients (MIT Scholars, NJIT, etc.)
  - Data planning & migration from proprietary/enterprise SIS to sunapsis compatible data systems
  - Project planning with client staff & tech teams
  - Led training sessions for clients
- sunapsis client support
  - Worked on client issues & tickets - writing responses, making video tutorials/demos, zoom call troubleshooting
  - Used SQL to either identify issues with (missing or incorrect) data or to teach client about data source & data flow
  - Conducted training workshops & presentations
  - Bug/FR reporting to core dev team

STUDENT PROGRAMMER, OFFICE OF ADMISSIONS, BGSU (2017 - 2020)

- Worked with Director of Enrollment Communications on email campaigns and building reports of student populations for personalized messaging using SQL and Slate (also some in house tools)
- Wrote SQL to build student groups by their location, test scores, race & ethnicity, high school class standing, previous interaction with BGSU (attended events, email events), interested area of study, etc.
- Used PHP & Mustache templating to update certain web pages & forms related to admission & enrollment

DAREMIGHTY HACKATHON, CHICAGO, OCTOBER 2019

- I recruited the team, facilitated team meetings and practice projects for the main event.
- For uniform workflow, I implemented team wide use of GitHub Desktop for project tracking and VSCode as the code editor
- On the main event day, we developed a voice assistant for Ulta Beauty using Google's Dialogflow since both Google and Ulta Beauty were sponsors of the event.
- I did the final presentation to the judges after a democratic voting within the team
- We learned a lot about API usage & fast iterations with project building after watching the projects of other teams

BGSU HACKATHON, BOWLING GREEN, FEBRUARY 2020

- Being a Spotify fan, I decided to build an app that recommends music based on facial emotion. We used Python with Flask for the app and Google Cloud Vision & Spotify APIs for core functionality.
- I took the responsibility for managing and programming the APIs and delegated the CSS/JavaScript & interface design to the other team members.
- Throughout the event, we faced a few technical issues with processing the data from Google Cloud Vision API but we worked our way around it to build and test the MVP. The final product was deployed as a web app which we used on our phones for demo and the final presentation.

PERSONAL

DATA PROJECTS

- dbt - completed dbt Fundamentals course using AWS
  - dbt & AWS - Used AWS CloudFormation to create a RedShift Data Warehouse alongside VPC + other services, then created schemas using SQL. Loaded data into Redshift from S3 using *copy & insert queries.* Connected dbt with Redshift on dbt cloud, then generated SQL models based off of the data
- AWS Projects
  - Python Data Wrangler + Sagemaker notebook - Loaded data from S3 into sagemaker notebook, then connected AWS Glue to convert csv to parquet for building metadata catalog (i.e. partitions) and SQL querying
  - **Bandcamp Discover** - Built an end to end python project that allows users to find & play music from Bandcamp.com. Used python selenium to scrape dynamic web elements, then parsed the data with Beautiful Soup to generate the iframe code which was then displayed using Python Streamlit. The app runs on an AWS EC2 where I installed python & selenium related chrome browser + drivers.
  - Billing & Budget - Configured custom budget limit and alerts for certain amount thresholds
- Kaggle Projects
  - Hotel Dataset - Did extensive EDA on the dataset using Pandas & Plotly. Built tables & plots with various combinations of groupbys & aggregation to figure out the highest number of reservations by person grouping, room type, etc. Lastly, built a 85% accuracy Random Forest Classifier using important features that can classify if a reservation will be confirmed or not. Used grid search to get the best hyper parameters and partial dependence for important features.
- PyTorch - 6 Layer CNN classification program on Fashion MNIST dataset. Model Accuracy - 94%
- Keras - Cats & Dogs image classifier using the VGG16 model. Model Accuracy 98%
- R programs on credit dataset for loan approval

CREATIVE PROJECTS

- I regularly work on music production, from making original music to making remixes, also polishing work i.e. cleaning up bad audio + mixing/mastering unprocessed tracks
- I also work on video production - editing, making animations, making edits, etc.
- I've made artworks by writing code on p5.js
- I have experience in using a variety of creative tools & software related to project planning, color management, file management & backup, etc.