

ASHISH AGARWAL

Software Engineer

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PROJECTS

Retail Sales Traffic Data DashBoards

December 2019 – August 2020

- Created Metadata objects according to requirements. Period to Date Metrics were later added. Data validation and performance testing.
- Created 3 Dashboards, one of which was single page scrolling dossier. Design testing to meet client's requirement.
- Microstrategy, Redshift

Customer Relation Management (CRM Dashboards)

July 2020 – February 2021

- Created views with respect to data in Redshift provided by ETL Team. Created Metadata objects according to requirements.
- Created 2 Dashboards, and one Document.
- Microstrategy, Redshift

RL RFID ETL AWS Lambda and CloudFormation

November 2018 – March 2019

- ETL logic on api provided by client and loading it in redshift.
- Logs updated in S3. Events triggered by Eventsbridge and S3 on the Lambda.
- Deployed the project in other environments using CloudScript.

Skin Cancer(Melanoma) Detection

September 2018 – December 2018

- Detection of a special type of skin cancer called Melanoma on the basis of images and personal data.
- Technologies used were tensorflow with keras, Flutter mobile application, opencv and kaggle for dataset.

Real time pollution data analysis and visualization

september 2018 – september 2018

- working with new and realtime data to analyze and visualize patterns. The data was provided by OKN(Open Knowledge Nepal).
- used sklearn, pandas, numpy, seaborn, matplotlib for the task.

SKILLS AND TECHNOLOGY

Web Development Linux Git
Desktop Apps Machine Learning/AI
Azure Cloud AWS Microstrategy
Data Structures

Proficient -

Python C++ awk grep C
Dart Electron Django HTML
CSS Numpy Pandas Sklearn
Matplotlib Seaborn Altair Bokeh
GGplot Jupyter Colab

Intermediate -

Bash JavaScript Bootstrap
Postgres Sqlite
Microsoft SQL Server Tensorflow
Keras OpenCv Tkinter Redshift
Airflow Lambda Latex

EDUCATION

Bachelors in Computer Engineering

Institute of Engineering(IOE), Pulchowk

May 2017 – December 2020

Percentile - 86 (Aggr.)

HSEB Board

ST. Xavier's College, Maitighar

May 2014 – May 2016

Percentile - 85

SLC Board

Balmiki Education Foundation, Birtamode, Jhapa

March 2003 – April 2014

Percentile - 85

TRAININGS

Gajabaar Infosecurity Mentorship Program

GAJABAAR

📅 June 2020

📍 Online

- Participated in the Mentorship program on full scholarship. Learned various security pitholes and vulnerable practices that could be avoided. Got a thorough knowledge in Web-applications,Networking,Linux and Cryptography.
- Participated in various CTFs and found many vulnerabilities.

Naamii Winter School in AI

NAAMII

📅 December 2019

📍 Pokhara

- Participated in the winter school and learned Paper learning methods,AI tools and methodology,AI Ethics in Society and 3D-Vision.

IOT Summer School

Coventry University with Softwarica College

📅 March 2018

📍 Kathmandu

- Participated in the summer camp and learned Research methods,Sensing,Monitoring and the Internet of Things.

Asian Regional Meeting (ARM)

Open Access Nepal, Open Knowledge Nepal and SPARC

📅 December 2017

📍 Kathmandu

- Participated in the conference and got training and insights on OA, OER and OD.

Nepal Physics Olympiad: NEPHO

Tri-Chandra Campus

📅 Feb 2017 – June 2017

📍 Kathmandu

- Participated in National Olympiad and ranked 2nd among Top 20.
- Took 3 months Training.

Nepal Astronomical Society: NASO

📅 March 2017 – June 2017

📍 Kathmandu

- Participated in Nationwide Olympiad and secured spot among top 20.
- Took specialized Training and practical experiments.

Nepal Science Olympiad: NESO

📅 September 2016 – November 2016 📍 Kathmandu

- Participated in Nationwide Olympiad and ranked 4th and secured spot among top 20.

EXTRA-CURRICULAR

VOLUNTEERING

ST. Xaviers' College , KTM

📅 feb 2016

Helping earthquake victims in Trauma center. Assisting Schools in rural areas to initiate programs.

ACTIVITIES

ORGANIZING

YOMARI Code Camp 2020

📅 2020

Organizing Yomari Code camp that provided +2 and Engineering students to come up with a product or solution in various fields.Assisting Participants in Technical field such as power management, Manpower optimization and Software failures.

Campus Club

Mozilla, Pulchowk

📅 May 2017

Mozilla campus club helps students of Computer engineering to cope up with different situations by giving them a platform to learn and express. - Great way for interacting .

Volunteer and Technical Supervisor

Helping Hands Nepal, HENN

📅 May 2017

📍 <http://www.helpnepal.net/>

Setting up linux based low resource consumption distros in schools of remote areas of Nepal.HENN has been looking in 17 remote areas all over Nepal. Also, content helping children to learn in localized Nepali language in the form of websites and app were developed.

BIODATA

Age : 24

Sex : Male

Nationality : Nepal

Hobbies : Reading Journals/Papers, Exploring linux distros, Scraping github repositories, Data analyzing and visualizing, TV series, Swimming, Cooking, Reading novels, solving hackerrank problems and programming.

Strengths : Willing to work with groups, to learn new things and able to make quick responsible decisions when needed.

I have a strong background and specializations in the following:

✓ **Data Modeling and Formatting**

I can help you format and organize your data ready for analysis/and or based on your instructions.

Tools: Python, Machine learning algorithms, neural networks, SQL

✓ **Interactive Data Visualization and Dashboards**

I can help you create an interactive dashboard that shows the trend and provide data-driven insights that are helpful, and precise to the point. I can create it using, Tableau, python or learn other Business Intelligence tools you are prefer.

Tools: Matplotlib, Ggplot, pyplot, seaborn, Plotly, Bokeh, Altair, Tableau , MicroStrategy

✓ **Data Analysis**

I believe there is a pattern to everything. I love telling stories from the data and influence decision-makers to act upon it.

Tools: Tableau, Python, powerBI, MicroStrategy

✓ **Reporting**

I can help you establish your future strategies and create a daily, weekly, monthly, reporting from your data.

Skills: Machine Learning, Deep Learning, MicroStrategy

✓ **Web Development**

If you require dynamic and interactive dashboards to see about the insights on daily, weekly or custom based update interval, I can help you with that.

ONLINE COURSES

Number Theory and Cryptography (coursera)

Data Communications and Network Services (coursera)

The Unix Workbench (coursera)

Introduction to Graph Theory (coursera)

Introduction to Complex Analysis (coursera)

Machine Learning (coursera)

AI for Everyone (coursera)

Git Essential Training (Udemy)

Collaborative Data Science for Healthcare(Edx)

Mathematical Foundations for Cryptography(coursera)

Think Again II: How to Reason Deductively(coursera)

Introduction to Mathematical Thinking(coursera)

Combinatorics and Probability(coursera)

How to Win a Data Science Competition: Learn from Top Kagglers(coursera)