Nitin Patil

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ACADEMIC QUALIFICATIONS

Year	Degree	Institute	Performance
2023	B.Tech	Indian Institute of Technology Kanpur	6.7/10.0
2018	CBSE(XII)	R D Public School, Betul	85.0%
2016	CBSE(X)	R D Public School, Betul	10.0/10.0

WORK EXPERIENCE

- **EXL Service |** *Cloud Engineer* *Oct'23 - Present*
  - Automated manual tasks using **Lambda Function** to increase efficiency and streamlining things
  - Developed and registered models with **Model Registry** in **SageMaker**
  - Creating **CI/CD Pipelines** to validate and deploy **CloudFormation** Stacks
  - Addressed daily operational challenges on cloud platforms, ensuring consistent functionality and **client support**
  - Oversaw seamless **onboarding of tenants (clients)** onto cloud platforms, ensuring smooth integration
  - Explored new **AWS services** through research and development, resulting in **POC** and comprehensive reports
- **Taghive Inc. |** *Data Analyst Intern* *May'22 - Jul'22*
  - Conduct a thorough lifecycle analysis of the company's Class Saathi app to give valuable insights through reports
  - Performed **exploratory data analysis** of the dataset after cleaning and visualized trends using **seaborn and matplotlib**
  - Implemented advanced Excel functionalities like **Pivot Tables** and **VLOOKUP** on dataset to perform data analysis
  - Defined **Key Performance Indicators (KPIs**) like **Heavy Users** and other useful **metrics** to measure the app's success
  - Successfully predicted **user engagement pattern** of upcoming months using **linear regression** and previous year data

KEY PROJECTS

- **Time Series Forecasting to Forecast Future Sales of Furniture** *Apr'22 - May'22*
  - Developed a model to predict and forecast the sales of furniture for the next one year by applying **Time Series** analysis
  - Performed **in-depth EDA** of sales data using different segments such as product categories and regions
  - Applied statistical techniques like **Dicky-Fuller test**, **Decomposition** and **ACF/PACF** plots to evaluate data features
  - Checked the stationarity and identified the nature of the data using **adfuller test** and **null hypothesis**
  - Implemented Time Series Analysis using **Seasonal ARIMA Model** and **Fbprophet** with an **RMSE 116.45**
- **Stock Market Data Analysis and Price Prediction using Neural Networks |** *Course Project (HSO201A)* *Jan'21 - Apr'21*
  Mentor: Prof. Dr. Somesh K. Mathur, Department of Economic Sciences, IIT Kanpur
  - Proposed an approach towards stock prediction using the **ANN (Artificial Neural Network)** technique
  - Reduced the multi-dimensionality of the data by using **Principal Component Analysis (PCA)** to train network faster
  - Used the reduced data as the **input vector** for the Artificial neural network (ANN) after applying PCA
  - Propagated the input obtained for ANN through **feed-forward step** one by one using **MATLAB toolbox**
  - Used **Backpropagation** for **Weight Updating** which uses **gradient descent** to minimize error in cost function
  - Outperformed the previous model and predicted the prices of stocks with minimum error in prediction
- **Tableau-SQL Integration Project** *July'22 - Aug'22*
  - Analyze Employees database using MySQL and integrate with Tableau to visualize patterns of their salaries
  - Analyzed the data after loading the database to MySQL using **Select, Insert, Update, Delete** and aggregate functions
  - Executed **Joins, Views, Subqueries, and Advanced queries** for department-wise analysis of **KPIs** such as salary
  - Transferred the data & organized different charts into an **Interactive Dashboard** using Tableau Public
  - Used Databases, Database Tools, and Visualization Tools such as **MySQL, MySQL Workbench** and **Tableau Public**
  - Successfully analyzed the relation between average salaries of employees and integrated SQL-Tableau

TECHNICAL SKILLS

- **Languages:** Python | C++
- **AWS Services:** SageMaker | AWS Lambda | CodePipeline | CloudFormation | Cloud9 | Step Functions| EC2| CodeCommit | CodeBuild | Amazon S3 | AWS CLI
- **Skills and Areas of Interest:** Cloud Computing | Machine Learning | MySQL
- **Libraries:** Boto3 | Numpy | Pandas | ScikitLearn

RELEVANT COURSEWORK

Fundamentals of Computing
Computational Methods in Engineering
Applied Probability and Statistics
Geoinformatics
Linear Algebra and ODE