

# Puneet Saini

Software Engineer  
(Data Engineer)  
Bengaluru

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📍 puneet29 in geekpuneet

## Skills

### PROGRAMMING

Python, Scala

### FRAMEWORKS | TOOLS | LIBRARIES

Spark, Hive, Pytorch, Numpy, FBProphet,  
Pandas, Matplotlib, Plotly, OpenCV,  
Seaborn, AWS EC2, AWS S3

### DATABASES

Oracle SQL, MySQL

### WEB TECHNOLOGIES

Flask, HTML, CSS, JS

### OTHERS

Markdown, Git, Vim, PuTTY,  
Jira, Confluence,  
Adobe Illustrator, Photoshop

## Education

2016-2020

B.TECH. CSE

Guru Nanak Dev University, Amritsar  
CGPA : 8.73/10

2015-2016

INTERMEDIATE

Bhavan's SL Public School, Amritsar  
Percentage: 91.8%

2013-2014

HIGH SCHOOL

Bhavan's SL Public School, Amritsar  
GPA: 9/10

## Volunteer Work

2018-2019

CHIEF ORGANIZER

Hack Zero To One

2018-2019

TECHNICAL HEAD

CESS, GNDU

2017-2018

DESIGN HEAD

CESS, GNDU

## Certifications/Courses

SAFe 5 Practitioner

Neural Networks and Deep Learning  
Convolutional Neural Networks  
Apache Spark with Scala

Data visualization: Storytelling  
Pytorch Scholarship Challenge

## Experience

2020-NOW **TCS, Bengaluru**

**Data Engineer**

- **Developing data pipelines to create business reports:**

- Translate business propositions into quantitative queries and collect/clean the necessary data.
- Built scalable databases capable of ETL processes using SQL and Spark.
- Analysis of data to create dimension and fact tables.
- Created shell scripts to automate pipeline jobs.

- **Automating the testing of recurring jobs:**

- Automated the testing process. Increased efficiency by 80%.
- Created shell scripts to automate mailing list for daily reconciliation report.

*Scala, Spark, Hadoop, Hive, Oracle SQL, Jira, Unix*

2020-2020 **Stylumia**

**Data Science Intern**

*Leading ML startup in FashionAI domain*

- **Predicting future sales using market and client data:**

- Used time series forecasting based methods to predict the future period for time series data.
- Used classical machine learning and deep learning models to predict sales of new product.

- **Creating a high level visualization library based on Plotly:**

- Developed a high level data visualization library to improve efficiency by 60%.
- Developed a project to integrate graphs to dashboards easily, helping clients to explore their data.

*Python, Pandas, Numpy, Scikit, Pytorch, Plotly, Jupyter, FBProphet, Flask*

2018-2018 **Redinmex, Mexico - Remote**

**Freelancer**

- **Crime Detection in CCTV video:**

- Gathered appropriate data to train the C3D model on.
- Created visualization for anomaly detection for end user.
- Created custom dataloader for handling large dataset.
- Managing VMs in Azure and VastAI for loading and running model training.

*Python, OpenCV, Jupyter, VastAI, Pytorch, Numpy, Pandas, Azure*

## Academic Projects

2020-NOW **Tic Tac Toe RL**

**Python, Numpy, Pygame**

Tic Tac Toe reinforcement learning model using Deep Q Learning. Also included the minmax model to train Q learning model. Made the GUI in Pygame.

2019-NOW **Fast Artistic Style Transfer** **Pytorch, Flask, AWS S3, AWS EC2**

A web app made using flask which uses pretrained models to stylize your image with selected style image. Implemented using Johnson et al. paper.

2019-NOW **Intel Scene Classification**

**Pytorch, Jupyter, Flask**

Scene Classification model for Analytics Vidhya's Competition. Hosted the app on Heroku.

2019-NOW **Skin Cancer Classification**

**Pytorch, Jupyter**

Skin cancer classification model which classifies three types of skin cancers.