

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

SEP 2020 **TCS, Bengaluru (Present)**

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

JAN 2020 **Stylumia (6 months)**

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

JUL 2018 **Redinmex, Mexico - Remote (1 month)**

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.