



PAWAN KUMAR AGRAWAL

GenAI & Data Science Engineer , Business Analytic & Data Analytic
PhD in Mechanical Engineering + MBA (HRM)

www.github.com/PawanKumarAgrawal/Data-Science-Machine-Learning-Projects

www.kaggle.com/pawankumaragrawal/code?scroll=true

*** Secured 186 Rank out of 2500 appeared candidates in Analytic Vidhya JOB-A-THON - November 2022 for Data Scientist aspirants.

CONTACT

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WEBSITE:

<https://pawankumaragrawal.github.io/data-analytics-data-scientist--portfolio-website>

www.linkedin.com/in/pawan-kumar-agrawal-82b938229

ADDRESS:

Kichha, Uttarakhand, India

SKILLS:

GenAI Langchain, RAG

● ● ● ○ ○

GenAI Multi-Agent System

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Data Science

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Machine Learning

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Deep Learning

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NLP

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SUMMARY

I am a dynamic professional with a strong foundation in mechanical engineering and business management. As an Artificial Intelligence Engineer and Data Science Expert, I specialize in harnessing Generative AI, LangChain, Retrieval-Augmented Generation (RAG), and Multi-Agent Systems to create and enhance sophisticated data processing and machine learning solutions.

My expertise spans predictive modelling, NLP, ML, and DL techniques, ensuring the highest data quality standards and driving innovative insights. Proficient in Python, SQL, and Power BI, I provide in-depth business analysis that supports strategic decision-making. With over 12 years of experience in the hydroelectricity generation sector, I bring a unique perspective to integrating cutting-edge technologies with practical applications. My exceptional leadership and communication skills further enable transformative results in data science and AI.

CERTIFICATIONS

❖ General Data Science and SQL

<https://www.testdome.com/certificates/6356e54229c440f3a8bdf3fc1887686f>

❖ SQL (Basic)

<https://www.hackerrank.com/certificates/iframe/c99cf664ad70>

❖ Python (Programming Language)

[https://www.linkedin.com/skill-assessments/Python%20\(Programmings%20Language\)/report/](https://www.linkedin.com/skill-assessments/Python%20(Programmings%20Language)/report/)

WORK EXPERIENCE

GenAI Engineer and Data Scientist

01 August 2023– Till date

Factobi Private Limited

Bengaluru, India

- As an Artificial Intelligence Engineer and Data Science Expert, I leverage advanced technologies like GenAI, LangChain, and Multi-Agent Systems to pioneer the development and

Python



Scikit - Learn



Feature Engineering



Tensor flow



Numpy



Pandas



Matplotlib



Seaborn



SQL



Data Analysis



Power BI



Analytical Skills



Problem Solving



Microsoft Office



Google Spreadsheet



Mechanical Engineering



Hydroelectricity Generation



Hydropower Operation



Team Management



Team Leadership



Team Motivation



STRENGTHS:

Hard Worker

Good Learner

Steady & Focused

LANGUAGES:

optimization of cutting-edge analytics and machine learning solutions. My role encompasses integrating machine learning methodologies for predictive modelling while maintaining rigorous data quality standards. Drawing upon my expertise in natural language processing (NLP), machine learning (ML), and deep learning (DL), I actively collaborate with cross-functional teams to drive forward-thinking analytics initiatives. Moreover, my expertise in Python, SQL, and Power BI empowers me to deliver comprehensive business analyses that drive strategic decision-making.

Research Scholar

01 July 2020– 30 June 2023

(Green Polymers & Composites)

G. B. Pant University of Agriculture & Technology

Pantnagar, Uttarakhand

- Worked on the development of Eco-friendly, Non - toxic, Biodegradable, Bio-compatible Thermoplastic based Green Composite.

Junior Engineer

23 Nov 2004 – 14 Mar 2016

UJVN Limited

Dehradun, Uttarakhand

(A hydro-power generation company of Uttarakhand government)

- Performed Operation & Maintenance duties at different hydro-power stations (Up to 240 MW installed capacity) of UJVN Limited.
- Prepared daily generation report & monthly energy accounts.
- Prepared data bank of various operating parameters.
- Helps the authorities in making annual maintenance budget.
- Made & placed purchase orders (work orders and supply orders).
- Billing of contractors.
- Made preventive & corrective maintenance of all the essentials, auxiliaries & accessories of hydro power station like turbine generators, generator transformers, cooling system, switch-yard, LT/switch-gear room, distribution boards, supply boards and compressors etc.
- Manage the inventory for day to day maintenance work.
- Made stock and T & P accounts on daily and monthly basis.
- Handled team size of 15 - 20 members (Including technicians, skilled & semiskilled labor).
- Communicate & motivate the team members, resolve their disputes and trained them during maintenance work to meet the target smoothly.
- Made man-days statement, absentee statement, overtime statements, handling various leave cases and appraising the performance of team members.

Lecturer of Mechanical Engineering

06 Aug 2004 – 28 Oct 2004

Moradabad Institute of Technology

English



Hindi



HOBBIES:

♥ Motivation

♥ Meditation

♥ Deep Meditation

♥ Yoga

Moradabad, Uttar-Pradesh

(Educational Institute)

- Taught Mechanical Engineering based courses like Thermodynamics, Mechanical Engineering etc.

Graduate Engineering Trainee

06 Apr 2000 – 26 Dec 2000

Anand Nishikawa Co. Ltd.

Rudrapur, Uttarakhand

(A manufacturer of rubber sealing product of automobiles)

- Worked as a supervisor in the production department & lead a team up to 15 members

EDUCATION

PhD (Mechanical Engineering)

01 July 2020 – 30 June 2023

Green Polymers & Composites

GPA - 8.27/10.00

G. B. Pant University of Agriculture & Technology

Pantnagar, Uttarakhand

***Topped in University Entrance Exam & got University Fellowship for 36 months.

MBA (HR & Financial Management)

01 July 2016 – 30 June 2018

Marks - 68.72 %

Uttarakhand Technical University

Dehradun, Uttarakhand

M. Tech. (Mechanical Engineering)

01 July 2002 – 30 June 2004

(Flat Plate Solar Collector)

GPA - 8.28/10.00

G. B. Pant University of Agriculture & Technology

Pantnagar, Uttarakhand

***Qualified GATE – 2002 with 94.10 percentile & got MHRD scholarship for 24 months.

B. Tech. (Mechanical Engineering)

01 July 1994 – 30 June 1998

GPA - 4.061/5.000

G. B. Pant University of Agriculture & Technology

Pantnagar, Uttarakhand

PERSONAL DETAIL

Date of Birth - 10 Dec 1976

Father's Name - Hari Ram Agrawal

Religion - Vaidic