

Kapil Arunessh S S

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Summary

Enthusiastic Data Science professional with expertise in machine learning, predictive modeling, data visualization, and database management for building practical, data-driven solutions. Experienced in applying statistical analysis and cloud-based workflows to deliver actionable insights and innovation. Additionally skilled in backend development, RESTful APIs, and scalable system design, with hands-on experience using modern tools for efficient project execution.

Experience

BRIGHT TECH INDUSTRIALS INDIA PVT LTD

Oct 2025 – Nov 2025

Full Stack Python Developer / Django Developer

- Utilised zonal-based segmentation to enable HR teams across different regions to securely access and manage recruitment data.
- Configured the system to support variable verticals across zones, ensuring seamless handling of 4,800+ employees and enhancing organisational data accuracy.
- Developed a comprehensive Recruitment Management System (RMS) using **Python, Django, PostgreSQL, and Tailwind CSS** to digitalise end-to-end hiring operations.
- Implemented secure file handling, **role-based access control (RBAC)**, and dynamic JavaScript-driven dashboards for efficient candidate tracking and evaluation.
- Standardised and updated pending candidate scores, improving follow-up processes and strengthening recruitment pipeline visibility.
- Delivered key organisational benefits by increasing recruitment transparency, reducing spreadsheet dependency, and enabling automated real-time reporting for HR teams.

Projects

Quantum Software Engineering Job Simulation on Forage - August 2025

[Project Link ↗](#)

- Developed an interactive Dash application to assess the impact of price changes on sales and profitability.
- Implemented a test suite to verify application functionality and automated execution using a bash script.
- Designed an intuitive user interface, making the tool engaging and easy for clients to interact with.
- **Tools Used:** Python, Dash, Plotly, Bash, Pytest

Heart Stroke Prediction using Machine Learning

[Project Link ↗](#)

- Built a model to predict stroke risk using features like age, hypertension, heart disease, BMI, and lifestyle.
- Performed preprocessing, EDA, and trained models like Logistic Regression and Random Forest.
- Achieved high accuracy and recall; showcased skills in healthcare data analysis and model evaluation.
- **Tools Used:** Python, Pandas, Matplotlib, seaborn and scikit-learn

Weather Forecast

[Project Link ↗](#)

- Analysed historical temperature data using Python to identify seasonal and yearly trends. Used Pandas, Plotly, and Datetime for time series transformation and interactive visualizations, showcasing skills in data wrangling and climate trend analysis.
- **Tools Used:** Python, Pandas, Plotly and DateTime

Certificate

Python for Data Science

Feb 2025

NPTEL, *IIT Madras* , ID: NPTEL25CS60S243303298

[View Certificate](#) ↗

Programming Techniques

Mar 2017

Bharathidasan University, (*IECD*), 16CPT06106

[View Certificate](#) ↗

Quantum Software Engineering Job Simulation

Aug 2025

Forage (Virtual Experience Program)

[View Certificate](#) ↗

Technologies

Area of Interest: Data Science , Backend Development

Language and Framework: Python, Django, PostgreSQL, JavaScript, Node, Express and React

Tools and Technologies: VS code , Jupyter Notebook, Anaconda, Git, GitHub, Postman, pgAdmin

Education

SRM Institute of Science and Technology

Jun 2022 – Sept 2026

B.Tech in Information Technology

- GPA: 8.49/10.0

Indian Institute of Technology, Madras

May 2024 – Present

BS in Data Science and Applications(Correspondence)

- GPA: 6.29/10.0