# Aishwarya K B

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## EDUCATION

- **K R Pet Krishna Government Engineering College** — Mandya, India
  *Bachelor of Engineering - Computer Science; GPA: 8.37* — *11/2022 - 5/2026*
  **Courses:** *Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

## SKILLS SUMMARY

- **Languages**: Python, R, SQL
- **Frameworks**: Pandas, NumPy, Matplotlib, Streamlit, Plotly, DAX
- **Tools**: Power BI, Tableau, MySQL, MongoDB, Excel
- **Data Analytics**: Statistical Analysis, Hypothesis Testing, Data Cleaning, Transformation
- **Soft Skills**: Problem-Solving, Attention to Detail, Data Storytelling, Communication, Teamwork, Time Management

## EXPERIENCE

- **Brainwave Matrix Solutions** — Remote
  *Cyber Security Intern* — *6/2024*
  - **Network Monitoring**: Monitored and analyzed network traffic across **100+ endpoints** to detect and mitigate threats, reducing security incidents by **30%**.
  - **Security Assessments**: Conducted **10+ penetration tests** and vulnerability scans, assisting in incident response and strengthening security protocols, leading to a **25% decrease in system vulnerabilities**.
  - **Documentation**: Researched and documented **50+ security incidents**, developed compliance policies, and implemented proactive measures to enhance cybersecurity resilience.

- **Bharat Intern** — Remote
  *Web Development Intern* — *6/2024*
  - **Responsive Web Development**: Developed and optimized **5+ responsive web applications** using HTML, CSS, and JavaScript, improving load times by **30%** and ensuring cross-device compatibility.
  - **Backend Development**: Implemented backend functionality, integrated **3+ databases** (MySQL, MongoDB), and developed RESTful APIs, reducing data retrieval time by **25%**.
  - **Testing and Debugging**: Conducted rigorous testing and debugging, identifying and resolving **95% of reported issues**, ensuring smooth application functionality.

- **Oasis Infobyte** — Remote
  *Intern* — *6/2024 - 7/2024*
  - **Research and Data Analysis**: Conducted in-depth research and analyzed **10+ datasets**, identifying key trends that improved decision-making efficiency by **20%**.
  - **Collaboration**: Worked with **5+ cross-functional teams** to enhance business operations and streamline workflow processes, reducing inefficiencies by **15%**.
  - **Documentation and Reports**: Developed **10+ technical reports and presentations**, providing actionable insights and improving project clarity for stakeholders.

## PROJECTS

- **YouTube Data Harvesting (Data Extraction, SQL, API Integration)**:
  - **Automated Data Extraction**: Developed a Streamlit app to extract and analyze data from **10+ YouTube channels** using the YouTube Data API, retrieving channel details, video metrics, and comments.
  - **Database Management**: Stored and managed **500K+ data points** in MongoDB as a data lake and migrated it to a MySQL data warehouse, enabling structured storage and efficient querying.
  - **Interactive Data Analysis**: Implemented SQL-based search functionality, allowing users to interactively analyze YouTube channel data, uncover trends, and visualize insights in real time.

- **PhonePe Pulse Data Visualization (Data Analysis, Dashboarding, Geospatial Visualization)**:
  - **Data Extraction & Processing**: Extracted and transformed **1M+ transaction records** from the PhonePe Pulse GitHub repository, converting raw data into structured formats (CSV, JSON) for efficient analysis.
  - **Dashboard Development**: Designed and implemented an interactive dashboard using **Streamlit and Plotly**, enabling real-time geospatial visualizations and dynamic user interactions.
  - **Database Integration**: Integrated a MySQL database to manage structured data, optimized SQL queries for fast retrieval, and improved data processing efficiency by **30%**.

- **Airbnb Data Analysis (Data Visualization, Business Intelligence, SQL)**:
  - **Data Extraction & Processing**: Extracted and cleaned **100K+ Airbnb records** from MongoDB, handling missing values and duplicates to ensure data consistency.
  - **Interactive Dashboard Development**: Developed a Streamlit application with geospatial visualizations, enabling users to analyze pricing trends, availability patterns, and location-based insights.
  - **Business Intelligence Reporting**: Designed **5+ Power BI dashboards** to visualize seasonal occupancy rates and demand fluctuations, providing data-driven insights for business decisions.

## CERTIFICATIONS

- **Basics of Python Software Engineering**: Certified in fundamental Python programming concepts, software development principles, and problem-solving techniques.
- **Python Certification**: Demonstrated proficiency in Python programming, data structures, and algorithm implementation for real-world applications.