A. SURYA KAUSTHUB

Bengaluru, India | +91 93912 46119 | kausthubsurya@gmail.com | Linkedin | Github

SUMMARY

Final-year Computer Science student with strong foundations in **SQL**, **data analytics**, and **reporting**. Experienced in creating **automated reports**, writing **PL/SQL procedures**, and developing **dashboards** with **Excel**, **Power BI**, and **Python**. Skilled at analyzing **large datasets**, ensuring accuracy of **MIS reports**, and preparing clear **presentations** for senior management. Proficient in **MS Office**, **technical writing**, and **automation of reporting workflows**, with solid programming skills in **Python**, **Java**, and **C++**.

EDUCATION

- **Bachelor of Technology in Computer Science** — CGPA: 8.3/10 (Top 10%)
  Amrita Vishwa Vidyapeetham, Bengaluru — *2022 – 2026*

TECHNICAL SKILLS

- **Databases & Reporting:** SQL (PostgreSQL/MySQL), PL/SQL procedures, MS Access, MIS reporting
- **Data Analytics & Visualization:** Excel (Advanced formulas), Power BI, Tableau, Pandas, NumPy, Matplotlib
- **Programming:** Python (automation, data processing, ML), Visual Basic, Java, C++, Algorithms & Data Structures
- **Automation & Tools:** Report automation (Python), Git, Jupyter, MS Office Suite (Excel, PowerPoint, Word)
- **ML / Systems:** PyTorch, TensorFlow, scikit-learn; MLOps (MLflow, Docker, Kubernetes, CI/CD); quantization
- **Testing & Profiling:** Unit/integration testing (pytest/gTest), performance profiling (perf)

EXPERIENCE

- **Technical Co-Founder** — Nov 2023 – Present
  Digg Deeperr — Micro-learning Platform (Remote)
  - Built and deployed **Next.js + Firebase** platform for **500+ active users**; automated reporting pipelines that reduced manual tracking by **70%**.
  - Designed **Prometheus/Grafana dashboards** to monitor uptime, latency, and errors; delivered **weekly performance reports** showing **99.9% uptime** and ≤150ms p95 latency.
  - Implemented automated **backup and monitoring scripts**, cutting reporting/maintenance time by **40%**.
  - Prepared structured **KPI reports** (uptime, latency, error budgets) for management reviews, improving decision-making efficiency.

PROJECTS

- **MorseVerse: TinyML vs Cloud Morse Translator** — ESP32, TFLite, PyTorch — Jan 2025 - Apr 2025
  - Analyzed **40k Morse sequences**, generating reports on accuracy, latency, and efficiency across edge vs. cloud models.
  - Built **automated performance reports** comparing ESP32 TinyML (77% acc, F1 76%) vs PyTorch LSTM (89%), highlighting IoT trade-offs.
  - Created structured **accuracy–latency charts** and **p95 timing reports** for deployment evaluation.
- **Low-Resource Telugu–Hindi Translation LLM** — PyTorch, Fairseq, BART, ONNX — Oct 2024 - Dec 2024
  - Prepared a **21.4k sentence-pair dataset**, with reports on vocabulary coverage (**16k Hindi, 32k Telugu**).
  - Automated logs and reports showing **validation loss gains** (6.48 vs 7.63) and **4× faster** convergence (10 vs 40 epochs).
  - Reported evaluation metrics (**BLEU/chrF**) and exported structured outputs for reproducibility.
- **Sales Reporting Dashboard** — SQL, Power BI, Excel — Jun 2024 - Aug 2024
  - Built a **Power BI dashboard** with KPIs on sales trends, regional growth, and profit margins.
  - Developed **SQL queries** to clean and aggregate data from multiple sources.
  - Automated **weekly Excel reports**, reducing manual reporting by **40%**.
  - Designed interactive **visualizations** to deliver quick insights for management.

CERTIFICATIONS & ACHIEVEMENTS

- **CodeChef 4 (1901)** & **Codeforces Expert (1775)** — Top ∼2–5%. [CC] [CF]
- **IBM: ML with Python (Honors)** — Jul 2024. [Cert]
- **IBM: Deep Learning with Keras** — Jul 2024. [Cert]

RESEARCH PUBLICATIONS

- **SecureBidPro: A Robust Online Auction System** — IEEE Conference, 2023.
- **Efficient ML Models for Telugu–Hindi Translation** — INCOFT 2025.
- **Quantum-Secured Alerts in Smart Grids** — IEEE ICET 2025.
- **Smart Health Tracker with GPS** — CRM 2025.

LEADERSHIP & MENTORING

- Conducted Distributed Systems Bootcamp (100+ participants)
- Mentored juniors in Android app development and code optimization